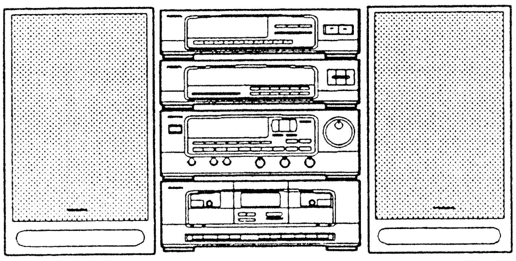
aiwa

# Z-D7000M



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 2ZM-1P1N,R1N
- BASIC CD MECHANISM : KSM-2101ABM

- TYPE. HE,LH,HR,E,K,Z

| ※CENTER SYSTEM | AMPLIFIER | CASSETTE DECK | TUNER | GRAPHIC EQUALIZER | SPEAKER | CD PLAYER (OPTIONAL) | TURNTABLE (OPTIONAL) |
|---|---|---|---|---|---|---|---|
| Z-D7000M<br>HE,LH,HR | MX-Z7000M | FX-WZ7000 | TX-Z7000 | GE-Z7000 | ※1<br>SX-Z7000 | ※2<br>DX-Z980M,<br>DX-Z950M,<br>DX-Z900M,<br>DX-Z850,<br>DX-Z830 | ※3<br>PX-E900,<br>PX-E750 |
| Z-D7000M<br>E,K,Z | MX-Z7000M | FX-WZ7000 | TX-Z7000 | GE-Z7000 | ※1<br>SX-Z7000 | ※2<br>DX-Z950M,<br>DX-Z900M,<br>DX-Z850,<br>DX-Z830,<br>DX-Z7000M | ※3<br>PX-E800,<br>PX-E750 |

| | |
|---|---|
| ※1 | CENTER SYSTEM dose not have ※1. |
| ※2 | As to the service information of CD PLAYER, see the individual service manual of original. |
| ※3 | As to the service information of TURNTABLE see the individual service manual of original. |

# SERVICE MANUAL

S/M Code No. 0266 DATE OF ISSUE 6/1993-K

# TABLE OF CONTENTS

- SPECIFICATIONS ........ 3
- TRANSISTOR ILLUSTRATION (MX－Z7000M, FX－ WZ7000, TX－Z7000, GE－Z7000) ........ 4
- ACCESSORIES/PACKAGE LIST ........ 4

[MX－Z7000M]

- ELECTRICAL MAIN PARTS LIST ........ 5~8
- IC DESCRIPTION ........ 9~14
- FL/IC BLOCK DIAGRAM－1 ........ 15~16
- BLOCK DIAGRAM－1 ........ 17~18
- WIRING－1 ........ 19~22
- SCHEMATIC DIAGRAM－1 ........ 23~24
- WIRING－2 ........ 25~26
- SCHEMATIC DIAGRAM－2 ........ 27~28
- WIRING－3 ........ 29~30
- SCHEMATIC DIAGRAM－3 ........ 31~32
- BLOCK DIAGRAM－2 ........ 33~34
- SCHEMATIC DIAGRAM－4 ........ 35~36
- IC BLOCK DIAGRAM－2 ........ 37
- EXPLODED VIEW, MECHANICAL PARTS LIST ........ 38~39

[FX－WZ7000]

- CAUTIONS WHEN SERVICING ........ 40
- ELECTRICAL MAIN PARTS LIST ........ 41~42
- SCHEMATIC DIAGRAM ........ 43~44
- WIRING－1 ........ 45~46
- BLOCK DIAGRAM ........ 47~48
- WIRING－2 ........ 49~50
- FL/IC BLOCK DIAGRAM ........ 51~52
- ADJUSTMENT, PRACTICAL SERVICE FIGURE ........ 53~54
- IC DESCRIPTION ........ 55~56
- EXPLODED VIEW－1, MECHANICAL PARTS LIST ........ 57~58
- EXPLODED VIEW－2, MECHANICAL PARTS LIST ........ 59~60
- EXPLODED VIEW－3, MECHANICAL PARTS LIST ........ 61~62
- SPRING APPLICATION POSITION ........ 63

[TX－Z7000]

- CAUTIONS WHEN SERVICING ........ 64
- ELECTRICAL MAIN PARTS LIST ........ 65~66
- BLOCK DIAGRAM ........ 67~68
- SCHEMATIC DIAGRAM－1, WIRING－1 (H) ........ 69~72
- SCHEMATIC DIAGRAM－2, WIRING－2 (E) ........ 73~76
- SCHEMATIC DIAGRAM－3, WIRING－3 (Z) ........ 77~80
- ADJUSTMENT－1, PRACTICAL SERVICE FIGURE－1 (H) ........ 81~82
- ADJUSTMENT－2, PRACTICAL SERVICE FIGURE－2 (E,Z) ........ 83~84
- IC DESCRIPTION ........ 85~86
- EXPLODED VIEW, MECHANICAL PARTS LIST ........ 87~88

[GE－Z7000]

- CAUTIONS WHEN SERVICING ........ 89
- ELECTRICAL MAIN PARTS LIST ........ 89
- IC DESCRIPTION/FL ........ 90~91
- BLOCK DIAGRAM ........ 92
- SCHEMATIC DIAGRAM ........ 93~94
- WIRING ........ 95~96
- IC BLOCK DIAGRAM ........ 97
- EXPLODED VIEW, MECHANICAL PARTS LIST ........ 98~99

[SX－Z7000]

- SPEAKER LIST ........ 100

- REFERENCE NAME LIST ........ 101

# SPECIFICATIONS

## TUNER TX-Z7000

**<FM section>**

| | |
|---|---|
| **Frequency range** | 87.5 MHz to 108 MHz |
| **Usable sensitivity (IHF)** | 2.2 µV (75 ohms) 18.2 dBf |
| **Alternate channel selectivity** | 50 dB (±400 kHz) |
| **Signal-to-noise ratio** | 70 dB (STEREO), 78 dB (MONO) |
| **Harmonic distortion** | 0.3% (MONO), 1 kHz<br>0.8% (STEREO), 1 kHz |
| **Frequency response** | 20 Hz to 15 kHz (+0.5 dB, −3 dB) |
| **Stereo separation** | 40 dB at 1 kHz |
| **Antenna** | 75 ohms (unbalanced) |

**<AM section> (YH, YLH)**

| | |
|---|---|
| **Frequency range** | 531 (530) kHz to 1,602(1,710) kHz |
| **Usable sensitivity** | 400 µV/m |
| **Selectivity** | 22 dB (9 kHz) |
| **Signal-to-noise ratio** | 53 dB (100 dB input) |
| **Antenna** | Loop antenna |

**<MW section> (YE, YZ)**

| | |
|---|---|
| **Frequency range** | 522 kHz to 1.611 kHz |
| **Usable sensitivity** | 400 µV/m |
| **Selectivity** | 22 dB (9 kHz) |
| **Signal-to-noise ratio** | 53 db (100 dB input) |
| **Antenna** | Loop antenna |

**<LW section> (YE, YZ)**

| | |
|---|---|
| **Frequency range** | 144 kHz to 290 kHz |
| **Usable sensitivity** | 1,000 µV/m |
| **Antenna** | Loop antenna |

**<Timer section and general>**

| | |
|---|---|
| **Program timer** | "Once" and/or "every" |
| **Sleep timer** | Capable of setting in 10 minute increments, 99 minutes maximum |
| **Dimensions (W×H×D)** | 360 x 88 x 315 mm<br>(14¼ x 3½ x 12½ in.) |
| **Weight** | 2.3 kg (5.28 lb.) |

## AMPLIFIER MX-Z7000

| | |
|---|---|
| **Power output** | Front:<br>H, HE, HR:<br>75W+75W (6 ohms, T.H.D. 10%, 1 kHz)<br>E, K, Z:<br>65W+65W (6 ohms, T.H.D. 1%, 1 kHz)<br>Rear:<br>15W+15W (16 ohms) |
| **Harmonic distortion** | 0.1% (25W, 1 kHz, 6 ohms) |
| **Input sensitivity (load impedance)** | VIDEO 1/DAT: 300 mV (39 kohms)<br>VIDEO 2/AUX: 500 mV (39 kohms)<br>PHONO IN: 500 mV or more (36 k ohms) |
| **Signal-to-noise ratio** | 80 dB |
| **Power requirements** | H, HE, HR: 120/220/240 V AC selectable, 50/60 Hz<br>E, Z: 230 V AC, 50 Hz<br>K: 240 V AC, 50 Hz |
| **Power consumption** | H, HE: 140W (System total 170W)<br>HR: 170W (System total 210W)<br>E,K,Z:<br>360W (System total 400W) |
| **Dimensions (W×H×D)** | 360 x 128 x 332 mm (14¼ x 5⅛ x 13⅛ in.) |
| **Weight** | H, HE: 7.4kg (16.28 lb.)<br>HR: 8.3kg (18.26 lb.)<br>E, K, Z: 9.1kg (20.02 lb.) |

## CASSETTE DECK FX-WZ7000

| | |
|---|---|
| **Track format** | 4 tracks, 2 channels |
| **Frequency response** | METAL tape: 20−17,000 Hz<br>CrO₂ tape: 20−16,000 Hz<br>Normal tape: 20−15,000 Hz |
| **Signal-to-noise ratio** | 70 dB (DOLBY C NR ON, METAL tape peak level above 5 kHz) |
| **Wow and flutter** | 0.12 % (WRMS)±0.19 % (WPEAK) |
| **Tape speed** | 4.8 cm/sec. (1⅞ ips)<br>9.5 cm/sec. (double speed) |
| **Rewind time** | 120 sec. (C-60) |
| **Fast forward time** | 120 sec. (C-60) |
| **Recording system** | AC bias |
| **Erase system** | AC erase |
| **Motor** | DC servomotor x 2 |
| **Heads** | Playback head x 1 (deck 1)<br>Record/playback/erasure head x 1 (deck 2) |
| **Dimensions (W×H×D)** | 360 x 128 x 309.5 mm (14¼ x 5⅛ x 12¼ in.) |
| **Weight** | 3.0 kg (6.6 lb.) |

## GRAPHIC EQUALIZER GE-Z7000

| | |
|---|---|
| **Input** | 210 mV (47 kohms) |
| **Output** | 210 mV (47 kohms) |
| **Dimensions (W×H×D)** | 360 x 88 x 308 mm (14¼ x 3½ x 12¼ in.) |
| **Weight** | 2.2 kg (4.84 lb.) |

## SPEAKER SX-Z7000

| | |
|---|---|
| **Cabinet type** | 3 way, bass reflex |
| **Speaker** | 220 mm cone type woofer<br>60 mm cone type tweeter<br>30 mm ceramic type super tweeter |
| **Impedance** | 6 ohms |
| **Music power** | 80W |
| **Output sound pressure level** | 90 dB/W/m |
| **Dimensions (W×H×D)** | H, HE, HR: 270 x 530 x 230 mm<br>(10¾ x 20⅞ x 9⅛ in.)<br>E, K, Z: 266 x 530 x 230 mm<br>(10½ x 20⅞ x 9⅛ in.) |
| **Weight** | 7.3 kg (16.06 lb.) |

## COMMON SECTION

| | |
|---|---|
| **Power requirements** | H, HE, HR: 120/220/240 V AC selectable, 50/60 Hz<br>E, Z: 230 V AC, 50 Hz<br>K: 240 V AC, 50 Hz |
| **Dimensions (W×H×D)** | 952 x 520 x 332.5 mm ( 37½ x 20½ x 13⅛ in.)<br>(vertical placement)<br>1,312 x 520 x 332.5 mm (51¾ x 20½ x 13⅛ in.)<br>(horizontal placement) |
| **Weight** | H, HE: 29.5 kg (64.9 lb.)<br>HR: 30.6 kg (67.32 lb.)<br>E, K, Z: 31.2 kg (68.64 lb.) |

Design and specifications are subject to change without notice.

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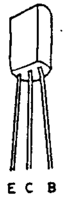
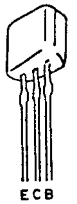
The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.

Under license from BBE Sound, Inc.

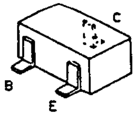
## TRANSISTOR ILLUSTRATION (MX—Z7000M, FX—WZ7000, TX—Z7000, GE—Z7000)



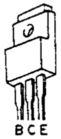
2SA1296
2SA1318
2SA952
2SC1815
2SC2001
2SC3266
2SC3331
2SD655
2SA1048
2SC2458
2SC3328
2SA1015
2SD1302



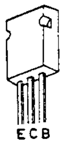
2SA933
2SC1740
DTA144ES
DTA114YS
DTC114YS
DTC144ES
2SD2144
DTC144TS
DTC144ES
DTA144ES



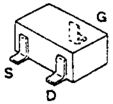
2SA1362
2SC1623
2SC2714
2SC3326
2SC2712
DTA114YK
DTA114EK
DTC143TK
DTC144EK
DTA123JK
DTC144WK
DTA144EK



2SB1370



2SB1354
2SB1332R



2SK209
2SK211
2SK302
2SK368

## ■ ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 82-VP1-902-010 | | IB, E(G)〈EE〉 |
| 2 | 82-VP1-904-010 | | IB, E(S)〈E, Z〉 |
| 3 | 82-VP1-901-010 | | IB, H(G)〈EE, K〉 |
| 4 | 82-VP1-903-210 | | IB, H(S)〈H, HE, HR, E, Z〉 |
| 5 | 87-006-226-010 | | AM LOOP ANT CON2〈EE, K, E〉 |
| 6 | 87-006-225-010 | | AM LOOP ANT NC2〈H, HE, HR, Z〉 |
| 7 | 81-748-632-010 | | FEEDER ANT FMN〈EXCEPT Z〉 |
| 8 | 87-043-106-010 | | FM WIRE ANT (Z)〈Z〉 |
| 9 | 87-009-724-010 | | PLUG, ADPTR, 1R39〈H〉 |
| 10 | 87-042-062-010 | | PLUG, ADPTR S-16115〈HE, HR〉 |
| 11 | 82-VP1-644-010 | | RC, RC-TZ7000MF〈H, HE, HR〉 |
| 12 | 82-VP1-647-010 | | RC, RC-TZ7000ML〈EE, K, E, Z〉 |

# MODEL NO.
# MX – Z7000M

## ELECTRICAL MAIN PARTS LIST (MX – Z7000M)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| IC | | | |
| | 87-017-016-010 | | IC, LM3875 |
| | 82-VP1-634-010 | | IC, CXP82324-127Q |
| | 87-017-311-010 | | IC, M65831FP |
| | 87-001-134-010 | | IC, NJU4053BD |
| | 87-002-637-010 | | IC, BU4051B |
| | 87-002-247-010 | | IC, BU4052B |
| | 87-002-727-010 | | IC, NJM4558L |
| | 87-002-218-010 | | IC, XRC5451AP |
| | 87-001-476-010 | | IC, TC9154AP |
| | 87-002-278-010 | | IC, LA2730 |
| | 87-020-908-010 | | IC, NJU4066BD |
| | 87-002-444-010 | | IC, BU4094B |
| | 87-001-396-010 | | IC, STK4182-MK2 |
| | 87-017-019-010 | | IC, CXP81312-333Q |
| | 87-017-022-080 | | IC, NJM2068M-D(T1) |
| | 87-002-214-010 | | IC, CS5339-KP |
| | 87-017-018-010 | | IC, CXD2701Q |
| | 87-017-291-010 | | IC, TMS44C256-10N |
| | 87-002-279-010 | | IC, SM 5840 ES |
| | 87-017-446-080 | | IC, PCM69AU |
| | 87-002-412-080 | | IC, SN74HC00NS |
| | 87-002-409-080 | | IC, SN74HC74NS |
| | 87-020-881-080 | | IC, NJM78L05A |
| | 87-020-882-080 | | IC, NJM79L05 |
| | 87-001-536-010 | | IC, NJML 78M05FA |
| TRANSISTOR | | | |
| | 87-026-462-080 | | TR, 2SC1740S (RS) |
| | 89-320-011-080 | | TR, 2SC2001K |
| | 87-026-464-080 | | TR, DTC114TS |
| | 87-026-245-080 | | TR, DTC114ES |
| | 89-113-187-880 | | TR, 2SA1318TU |
| | 87-026-214-080 | | TR, DTA114YS |
| | 87-026-215-080 | | TR, DTC114YS |
| | 89-213-702-010 | | TR, 2SB1370E |
| | 87-026-463-080 | | TR, 2SA933S (RS) |
| | 89-318-155-080 | | TR, 2SC1815GR |
| | 89-213-321-080 | | TR, 2SB1332R (T105) |
| | 89-332-665-080 | | TR, 2SC3266GR |
| | 87-026-500-080 | | TR, 2SD2144S. UV (TP) |
| | 89-333-317-880 | | TR, 2SC3331 TU |
| | 89-406-555-080 | | TR, 2SD655E |
| | 87-026-219-080 | | TR, DTA144ES |
| | 87-026-211-080 | | C-TR, DTA144EK T147 |
| | 87-026-238-080 | | C-TR, DTC144WK |
| | 89-109-521-080 | | TR, 2SA952K |
| DIODE | | | |
| | 87-002-225-010 | | DIODE, DBF 40C-K10 |
| | 87-002-597-060 | | DIODE, DBF, 60C-K13 |
| | 87-001-912-080 | | ZENER, UTZJ 5. 1B |
| | 87-020-691-080 | | DIODE, 1SS132 T-72 |
| | 87-001-574-080 | | DIODE, 1SR139-200 T31 |
| | 87-002-743-080 | | ZENER, MTZJ 33B |
| | 87-001-913-080 | | ZENER, UTZJ5. 6B |
| | 87-001-911-080 | | ZENER, UTZJ4. 7A (TAPG) |
| | 87-017-430-090 | | DIODE, RK14〈E, K, HR, Z〉 |
| | 87-017-415-090 | | DIODE, RL203〈H, HE〉 |
| | 87-001-916-080 | | ZENER, UTZJ10B |
| | 87-001-559-080 | | DIODE, ISS 131 (T-72) |
| | 87-002-430-080 | | ZENER, UTZJ8. 2C |
| | 87-027-606-080 | | ZENER, HZ7C2L |
| | 87-020-339-080 | | C-DIODE, 1SS226〈EXCEPT Z〉 |
| | 87-017-024-080 | | C-DIODE, DA204K〈Z〉 |
| MAIN C.B | | | |
| C1 | 87-018-208-080 | | CAP, TC-U 0. 047-50 F |
| C2 | 87-018-208-080 | | CAP, TC-U 0. 047-50 F |
| C3 | 87-018-208-080 | | CAP, TC-U 0. 047-50 F |
| C4 | 87-018-208-080 | | CAP, TC-U 0. 047-50 F |
| C5 | 87-016-055-090 | | CAP, E 3300-42 HI-R |
| C6 | 87-016-055-090 | | CAP, E 3300-42 HI-R |
| C7 | 87-016-160-090 | | CAP, E 5600-56 BSN |
| C8 | 87-016-160-090 | | CAP, E 5600-56 BSN |
| C15 | 87-010-260-080 | | CAP, E 47-25 SME |
| C16 | 87-010-384-080 | | CAP, E 100-25 SME |
| C17 | 87-010-764-080 | | CAP, E 47-63V |
| C18 | 87-010-263-080 | | CAP, E 100-10 |
| C27 | 87-010-405-080 | | CAP, E 10-50 SME |
| C28 | 87-010-101-080 | | CAP, E 220-16 SME |
| C60 | 87-010-403-080 | | CAP, E 3. 3-50 SME |
| C61 | 87-010-374-080 | | CAP, E 47-10 |
| C70 | 87-010-453-090 | | CAP, E 4700-25V SME |
| C71 | 87-010-405-080 | | CAP, E 10-50 SME |
| C72 | 87-010-260-080 | | CAP, E 47-25 SME |
| C73 | 87-010-101-080 | | CAP, E 220-16 SME |
| C74 | 87-010-381-080 | | CAP, E 330-16 SME |
| C75 | 87-016-293-010 | | CAP, E 220-50 BP |
| C77 | 87-018-208-080 | | CAP, TC-U 0. 047-50 F |
| C78 | 87-018-208-080 | | CAP, TC-U 0. 047-50 F |
| C79 | 87-018-127-080 | | CAP, TC-U 470P-50 B |
| C101 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C102 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C103 | 87-010-406-080 | | CAP, E 22-50 SME |
| C104 | 87-010-374-080 | | CAP, E 47-10 |
| C105 | 87-010-263-080 | | CAP, E 100-10 |
| C106 | 87-010-221-080 | | CAP, E 470-10 |
| C141 | 87-010-406-080 | | CAP, E 22-50 SME |
| C191 | 87-010-405-080 | | CAP, E 10-50 SME |
| C192 | 87-010-405-080 | | CAP, E 10-50 SME |
| C193 | 87-010-405-080 | | CAP, E 10-50 SME |
| C194 | 87-010-405-080 | | CAP, E 10-50 SME |
| C198 | 87-010-405-080 | | CAP, E 10-50 SME |
| C199 | 87-010-405-080 | | CAP, E 10-50 SME |
| C200 | 87-010-405-080 | | CAP, E 10-50 SME |
| C201 | 87-018-134-080 | | CAP, TC-U 0. 01-16 Y |
| C202 | 87-018-134-080 | | CAP, TC-U 0. 01-16 Y |
| C250 | 87-010-401-080 | | CAP, E 1-50 SME |
| C251 | 87-010-101-080 | | CAP, E 220-16 SME |
| C252 | 87-010-401-080 | | CAP, E 1-50 SME |
| C253 | 87-010-401-080 | | CAP, E 1-50 SME |
| C254 | 87-010-405-080 | | CAP, E 10-50 SME |
| C255 | 87-010-405-080 | | CAP, E 10-50 SME |
| C256 | 87-010-401-080 | | CAP, E 1-50 SME |
| C257 | 87-010-401-080 | | CAP, E 1-50 SME |
| C258 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C259 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C260 | 87-010-400-080 | | CAP, E 0. 47-50 SME |
| C261 | 87-010-400-080 | | CAP, E 0. 47-50 SME |
| C262 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C263 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C264 | 87-010-401-080 | | CAP, E 1-50 SME |
| C265 | 87-010-405-080 | | CAP, E 10-50 SME |
| C266 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C267 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C269 | 87-018-121-080 | | CAP, TC-U 150P-50 B |

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| C270 | 87-018-121-080 | | CAP, TC-U 150P-50 B |
| C273 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C274 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C275 | 87-018-198-080 | | CAP, TC-U 2700P-16 X |
| C276 | 87-018-198-080 | | CAP, TC-U 2700P-16 X |
| C277 | 87-018-122-080 | | CAP, TC-U 180P-50 B |
| C278 | 87-018-122-080 | | CAP, TC-U 180P-50 B |
| C281 | 87-010-544-080 | | CAP, E 0.1-50 |
| C282 | 87-010-544-080 | | CAP, E 0.1-50 |
| C283 | 87-010-545-080 | | CAP, E 0.22-50 SME |
| C284 | 87-010-545-080 | | CAP, E 0.22-50 SME |
| C285 | 87-010-401-080 | | CAP, E 1-50 SME〈HE, HR〉 |
| C285 | 87-010-403-080 | | CAP, E 3.3-50 SME〈H, E, K, Z〉 |
| C286 | 87-010-405-080 | | CAP, E 10-50 SME |
| C287 | 87-010-405-080 | | CAP, E 10-50 SME |
| C288 | 87-010-405-080 | | CAP, E 10-50 SME |
| C289 | 87-010-401-080 | | CAP, E 1-50 SME |
| C290 | 87-010-401-080 | | CAP, E 1-50 SME〈HE, HR〉 |
| C290 | 87-010-403-080 | | CAP, E 3.3-50 SME〈H, E, K, Z〉 |
| C291 | 87-018-195-080 | | CAP, TC-U 1200P-16 X |
| C292 | 87-018-195-080 | | CAP, TC-U 1200P-16 X |
| C293 | 87-018-128-080 | | CAP, TC-U 560P-50 B |
| C294 | 87-018-128-080 | | CAP, TC-U 560P-50 B |
| C360 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C365 | 87-018-115-080 | | CAP, TC-U 47P-50 SL |
| C670 | 87-010-405-080 | | CAP, E 10-50 SME |
| C671 | 87-010-400-080 | | CAP, E 0.47-50 SME |
| C681 | 87-016-072-080 | | CAP, E 0.47-50 FX |
| C682 | 87-016-072-080 | | CAP, E 0.47-50 FX |
| C683 | 87-010-401-080 | | CAP, E 1-50 SME |
| C684 | 87-010-401-080 | | CAP, E 1-50 SME |
| C685 | 87-010-400-080 | | CAP, E 0.47-50 SME |
| C686 | 87-010-400-080 | | CAP, E 0.47-50 SME |
| C687 | 87-010-401-080 | | CAP, E 1-50 SME |
| C688 | 87-010-401-080 | | CAP, E 1-50 SME |
| C689 | 87-016-096-080 | | CAP, E 47-16 FX |
| C690 | 87-016-096-080 | | CAP, E 47-16 FX |
| C691 | 87-010-401-080 | | CAP, E 1-50 SME |
| C692 | 87-010-401-080 | | CAP, E 1-50 SME |
| C693 | 87-010-402-080 | | CAP, E 2.2-50 SME |
| C694 | 87-010-402-080 | | CAP, E 2.2-50 SME |
| C695 | 87-010-400-080 | | CAP, E 0.47-50 SME |
| C696 | 87-010-401-080 | | CAP, E 1-50 SME |
| C697 | 87-010-403-080 | | CAP, E 3.3-50 SME |
| C698 | 87-010-403-080 | | CAP, E 3.3-50 SME |
| C699 | 87-010-544-080 | | CAP, E 0.1-50 |
| C701 | 87-010-405-080 | | CAP, E 10-50 SME |
| C702 | 87-010-405-080 | | CAP, E 10-50 SME |
| C703 | 87-018-128-080 | | CAP, TC-U 560P-50 B |
| C704 | 87-018-128-080 | | CAP, TC-U 560P-50 B |
| C750 | 87-010-405-080 | | CAP, E 10-50 SME |
| C751 | 87-010-374-080 | | CAP, E 47-10 |
| C752 | 87-018-131-080 | | CAP, TC-U 1000P-50 B |
| C756 | 87-018-214-080 | | CAP, TC U 0.1-50 F |
| C757 | 87-018-214-080 | | CAP, TC U 0.1-50 F |
| C758 | 87-010-408-080 | | CAP, E 47-50 SME |
| C759 | 87-010-374-080 | | CAP, E 47-10 |
| C760 | 87-010-374-080 | | CAP, E 47-10 |
| C761 | 87-018-111-080 | | CAP, TC-U 27P-50 SL |
| C762 | 87-018-111-080 | | CAP, TC-U 27P-50 SL |
| C763 | 87-010-260-080 | | CAP, E 47-25 SME |
| C764 | 87-010-260-080 | | CAP, E 47-25 SME |
| C769 | 87-016-055-090 | | CAP, E 3300-42 HI-R〈Z〉 |
| C770 | 87-016-055-090 | | CAP, E 3300-42 HI-R〈Z〉 |
| C771 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C772 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C773 | 87-018-214-080 | | CAP, TC U 0.1-50 F |
| C773 | 87-016-055-090 | | CAP, E 3300-42 HI-R〈Z〉 |
| C800 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| EMI101 | 87-008-372-080 | | FILTER, EMI BL OIRNI |

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| EMI102 | 87-008-372-080 | | FLTR, EMI BL OIRNI〈E, K, Z〉 |
| J280 | 87-099-084-010 | | JACK, 6.3 W/S |
| J281 | 87-099-064-010 | | JACK, 6.3 W/S |
| J283 | 87-099-064-010 | | JACK, 6.3 W/S |
| J750 | 81-VP1-634-010 | | JACK, PIN 3P |
| J751 | 81-VP1-634-010 | | JACK, PIN 3P |
| J752 | 81-VP1-634-010 | | JACK, PIN 3P |
| J753 | 87-009-393-010 | | JACK, PIN 2P EARTH |
| J755 | 87-009-877-010 | | CONN, 9P FG |
| J759 | 87-009-393-010 | | JACK, PIN 2P EARTH |
| J760 | 87-033-225-010 | | TERMINAL, SP-4P N |
| L750 | 87-005-366-010 | | COIL, 1UH |
| L751 | 87-005-366-010 | | COIL, 1UH |
| L752 | 87-005-366-010 | | COIL, 1UH |
| R25 | 87-025-475-080 | | RES NF 22-1/4WJ〈E, K, HR, Z〉 |
| R27 | 87-025-475-080 | | RES NF 22-1/4WJ〈E, K, HR, Z〉 |
| R40 | 87-022-050-080 | | RES METAL 1W-0.22J |
| R45 | 87-022-050-080 | | RES METAL 1W-0.22J |
| R49 | 87-022-050-080 | | RES METAL 1W-0.22J |
| R96 | 87-022-200-080 | | RES METAL 0.56-1W〈H, HE〉 |
| R97 | 87-022-200-080 | | RES METAL 0.56-1W〈H, HE〉 |
| R777 | 87-022-050-080 | | RES METAL 1W-0.22J |
| R778 | 87-022-050-080 | | RES METAL 1W-0.22J |
| R779 | 87-022-050-080 | | RES METAL 1W-0.22J |
| R780 | 87-022-050-080 | | RES METAL 1W-0.22J |
| RY1 | 87-045-335-010 | | RELAY, G5Z-2A 12VDC〈EXCEPT Z〉 |
| RY1 | 87-045-285-010 | | RELAY, VB12MB |
| RY2 | 87-045-285-010 | | RELAY, VB12MB |
| RY3 | 87-045-344-010 | | RELAY, G5B-1 12V |
| VR141 | 81-MT3-631-010 | | VR, 50KBX2 |
| VR281 | 81-VP1-622-010 | | VR, 10KA RK11K112 |
| VR372 | 81-VP1-627-010 | | VR, 100KW RK11K112 |
| VR373 | 81-VP1-627-010 | | VR, 100KW RK11K112 |
| W1 | 82-VP2-634-110 | | F-CABLE 5P-2.5 |
| W2 | 82-VP2-634-110 | | F-CABLE 5P-2.5 |

FRONT C.B

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| C1 | 87-010-401-080 | | CAP, E 1-50 SME |
| C2 | 87-010-401-080 | | CAP, E 1-50 SME |
| C3 | 87-010-405-080 | | CAP, E 10-50 SME |
| C4 | 87-016-088-040 | | CAP, E 220-6.3 SR |
| C5 | 87-010-263-080 | | CAP, E 100-10 |
| C15 | 87-018-209-080 | | CAP, TC-U 0.1-50 F |
| C16 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C19 | 87-018-131-080 | | CAP, TC-U 1000P-50 B |
| C20 | 87-010-401-080 | | CAP, E 1-50 SME |
| C21 | 87-010-401-080 | | CAP, E 1-50 SME |
| C22 | 87-010-401-080 | | CAP, E 1-50 SME |
| C23 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C24 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C160 | 87-018-209-080 | | CAP, TC-U 0.1-50 F |
| C161 | 87-010-401-080 | | CAP, E 1-50 SME |
| C162 | 87-010-260-080 | | CAP, E 47-25 SME |
| C163 | 87-010-263-080 | | CAP, E 100-10 |
| C164 | 87-018-201-080 | | CAP, TC-U 5600P-16 X〈HE, HR〉 |
| C165 | 87-018-201-080 | | CAP, TC-U 5600P-16 X〈HE, HR〉 |
| C166 | 87-018-131-080 | | CAP, TC-U 1000P-50 B |
| C167 | 87-018-131-080 | | CAP, TC-U 1000P-50 B |
| C172 | 87-018-209-080 | | CAP, TC-U 0.1-50 F |
| C175 | 87-018-133-080 | | CAP, TC-U 4700P-16 X |
| FL1 | 82-VP1-631-010 | | FL, FIP11BYM7 |
| L1 | 87-003-098-080 | | COIL, 2.2UH |
| L2 | 87-003-098-080 | | COIL, 2.2UH |
| L3 | 87-003-102-080 | | COIL, 10UH |
| L4 | 87-005-153-080 | | COIL, 47UH |
| S1 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S2 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S3 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S4 | 87-036-215-080 | | SW, TACT EVQ21404M |

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| S5 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S6 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S7 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S8 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S9 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S10 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S11 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S12 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S13 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S14 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S15 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S16 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S17 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S18 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S20 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S21 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S22 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S23 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S24 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S25 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S26 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S27 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S28 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S29 | 87-036-215-080 | | SW, TACT EVQ21404M |
| S30 | 87-036-215-080 | | SW, TACT EVQ21404M |
| VR2 | 82-VP2-636-010 | | VR, SL10K B〈HE, HR〉 |
| X1 | 87-008-506-080 | | VIB, CER 10.0MHZ CST |
| X2 | 87-008-496-080 | | CERALOCK CST2.09MG〈HE, HR〉 |

DOLBY C.B

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| C50 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C51 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C52 | 87-010-260-080 | | CAP, E 47-25 SME |
| C53 | 87-010-260-080 | | CAP, E 47-25 SME |
| C55 | 87-018-111-080 | | CAP, TC-U 27P-50 SL |
| C57 | 87-010-405-080 | | CAP, E 10-50 SME |
| C58 | 87-018-127-080 | | CAP, TC-U 470P-50 B |
| C70 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C71 | 87-010-401-080 | | CAP, E 1-50 SME |
| C72 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C73 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C74 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C76 | 87-010-260-080 | | CAP, E 47-25 SME |
| C77 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C78 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C79 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C80 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C81 | 87-018-195-080 | | CAP, TC-U 1200P-16 X |
| C82 | 87-018-195-080 | | CAP, TC-U 1200P-16 X |
| C90 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C91 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C92 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C93 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C94 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C95 | 87-018-134-080 | | CAP, TC-U 0.01-16 Y |
| C100 | 87-010-260-080 | | CAP, E 47-25 SME |
| C101 | 87-010-260-080 | | CAP, E 47-25 SME |
| C130 | 87-010-401-080 | | CAP, E 1-50 SME |
| C131 | 87-010-401-080 | | CAP, E 1-50 SME |
| C132 | 87-010-112-080 | | CAP, E 100-16 |
| C133 | 87-010-406-080 | | CAP, E 22-50 SME |
| C134 | 87-010-101-080 | | CAP, E 220-16 SME |
| C135 | 87-010-546-080 | | CAP, E 0.33-50 SME |
| C136 | 87-018-203-080 | | CAP, TC-U 8200P-16 Y |
| C137 | 87-018-133-080 | | CAP, TC-U 4700P-16 X |
| R330 | 87-022-474-050 | | RES NF 10-1/4W J |

DSP C.B

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| C902 | 87-010-194-080 | | C-CAP, S 0.047-25 F |
| C903 | 87-012-349-080 | | C-CAP, S 1000P-50 CH |
| C904 | 87-012-349-080 | | C-CAP, S 1000P-50 CH |
| C905 | 87-010-234-080 | | CAP, E 47-16 5L |
| C906 | 87-010-234-080 | | CAP, E 47-16 5L |
| C907 | 87-012-349-080 | | C-CAP, S 1000P-50 CH |
| C908 | 87-012-349-080 | | C-CAP, S 1000P-50 CH |
| C911 | 87-016-264-080 | | C-CAP, TN4.7-6.3 F95Q |
| C912 | 87-010-805-080 | | C-CAP, S 1-16F |
| C913 | 87-010-263-080 | | CAP, E 100-10 |
| C915 | 87-016-264-080 | | C-CAP, TN4.7-6.3 F95Q |
| C916 | 87-010-196-080 | | C-CAP, S 0.1-25 F |
| C917 | 87-010-196-080 | | C-CAP, S 0.1-25 F |
| C918 | 87-010-318-080 | | C-CAP, S 47P-50 CH |
| C919 | 87-010-196-080 | | C-CAP, S 0.1-25 F |
| C920 | 87-010-197-080 | | C-CAP, S 0.01-25 B |
| C921 | 87-010-075-080 | | CAP, E 10-16 5L |
| C922 | 87-010-075-080 | | CAP, E 10-16 5L |
| C923 | 87-010-293-080 | | C-CAP, 47P-50 CH |
| C924 | 87-010-293-080 | | C-CAP, 47P-50 CH |
| C925 | 87-010-196-080 | | C-CAP, S 0.1-25 F |
| C926 | 87-010-401-080 | | CAP, E 1-50 SME |
| C927 | 87-010-405-080 | | CAP, E 10-50 SME |
| C928 | 87-010-197-080 | | C-CAP, S 0.01-25 B |
| C929 | 87-010-196-080 | | C-CAP, S 0.1-25 F |
| C930 | 87-010-196-080 | | C-CAP, S 0.1-25 F |
| C931 | 87-010-405-080 | | CAP, E 10-50 SME |
| C933 | 87-010-166-080 | | C-CAP, S 100P-50 SL |
| C934 | 87-010-194-080 | | C-CAP, S 0.047-25 F |
| C936 | 87-010-197-080 | | C-CAP, S 0.01-25 B |
| C937 | 87-010-317-080 | | C-CAP, S 39P-50 CH |
| C938 | 87-010-317-080 | | C-CAP, S 39P-50 CH |
| C939 | 87-010-234-080 | | CAP, E 47-16 5L |
| C940 | 87-010-196-080 | | C-CAP, S 0.1-25 F |
| C941 | 87-010-318-080 | | C-CAP, S 47P-50 CH |
| C942 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C943 | 87-010-197-080 | | C-CAP, S 0.01-25 B |
| C944 | 87-010-194-080 | | C-CAP, S 0.047-25 F |
| C945 | 87-010-197-080 | | C-CAP, S 0.01-25 B |
| C946 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C947 | 87-010-197-080 | | C-CAP, S 0.01-25 B |
| C948 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C949 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C951 | 87-010-197-080 | | C-CAP, S 0.01-25 B |
| C952 | 87-015-819-080 | | CHIP CAP 0.01 |
| C956 | 87-010-197-080 | | C-CAP, S 0.01-25 B |
| C960 | 87-010-194-080 | | C-CAP, S 0.047-25 F |
| C961 | 87-012-157-080 | | C-CAP, S 330P-50 CH |
| C966 | 87-010-805-080 | | C-CAP, S 1-16F |
| C967 | 87-010-405-080 | | CAP, E 10-50 SME |
| C970 | 87-010-263-080 | | CAP, E 100-10 |
| C971 | 87-016-264-080 | | C-CAP, TN4.7-6.3 F95Q |
| C972 | 87-016-264-080 | | C-CAP, TN4.7-6.3 F95Q |
| C973 | 87-010-197-080 | | C-CAP, S 0.01-25 B |
| C974 | 87-010-401-080 | | CAP, E 1-50 SME |
| C975 | 87-010-197-080 | | C-CAP, S 0.01-25 B |
| C977 | 87-010-194-080 | | C-CAP, S 0.047-25 F |
| C979 | 87-010-263-080 | | CAP, E 100-10 |
| C980 | 87-010-263-080 | | CAP, E 100-10 |
| C981 | 87-010-263-080 | | CAP, E 100-10 |
| C982 | 87-010-263-080 | | CAP, E 100-10 |
| C985 | 87-010-260-080 | | CAP, E 47-25 SME |
| C987 | 87-010-307-080 | | C-CAP, 680P-50 CH |
| C988 | 87-018-129-080 | | CAP, TC-U 680P-50 B |
| C989 | 87-010-183-080 | | C-CAP, S 2700P-50 B |
| C990 | 87-010-183-080 | | C-CAP, S 2700P-50 B |
| C992 | 87-010-260-080 | | CAP, E 47-25 SME |
| C993 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C994 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C997 | 87-010-320-080 | | C-CAP, S 68P-50 CH |

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| C998 | 87-010-320-080 | | C-CAP, S 68P-50 CH |
| C999 | 87-010-320-080 | | C-CAP, S 68P-50 CH |
| FB1 | 87-005-521-080 | | C-COIL, BLM32A06 |
| FB2 | 87-005-521-080 | | C-COIL, BLM32A06 |
| FB3 | 87-008-372-080 | | FILTER, EMI BL 01RN1 |
| FB4 | 87-008-372-080 | | FILTER, EMI BL 01RN1 |
| FB5 | 87-008-372-080 | | FILTER, EMI BL 01RN1 |
| FB6 | 87-008-372-080 | | FILTER, EMI BL 01RN1 |
| FB7 | 87-005-521-080 | | C-COIL, BLM32A06 |
| L901 | 87-005-153-080 | | COIL, 47UH |
| L903 | 87-005-153-080 | | COIL, 47UH |
| L904 | 87-005-153-080 | | COIL, 47UH |
| X901 | 87-030-310-080 | | VIB, XTAL 22.5792 |
| X902 | 87-008-394-080 | | CF CST 4.19 MGW |
| **VOLUME C.B** | | | |
| C201 | 87-010-405-080 | | CAP, E 10-50 SME |
| C202 | 87-010-405-080 | | CAP, E 10-50 SME |
| C203 | 87-010-405-080 | | CAP, E 10-50 SME |
| C204 | 87-010-405-080 | | CAP, E 10-50 SME |
| C205 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C206 | 87-010-404-080 | | CAP, E 4.7-50 SME |
| C207 | 87-018-205-080 | | CAP, TC-U 0.022-25 F |
| VR1 | 82-VP1-633-010 | | VR, 50KBX4, 100KCX1 W/M |
| **SUB C.B** | | | |
| **FG-GEQ C.B** | | | |
| J758 | 87-009-877-410 | | CONN, 9P FG (BLU) |
| PT2 | 82-VP1-630-010 | | PT, 2VP-1 FL |

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| **IC C.B** | | | |
| **TR C.B** | | | |
| **AC 1 C.B** | | | |
| △F2 | 87-035-436-010 | | FUSE, 2.5A 125VARLEAD〈H, HE〉 |
| △F2 | 87-035-366-010 | | FUSE, 2.5A 250VTE/K〈E, K, HR, Z〉 |
| R96 | 87-022-200-080 | | RES METAL 0.56-1W〈E, K, HR, Z〉 |
| R97 | 87-022-200-080 | | RES METAL 0.56-1W〈E, K, HR, Z〉 |
| **AC 2 C.B** | | | |
| △F1 | 87-035-191-010 | | FUSE, 3.15A〈H, HE, HR〉 |
| △F1 | 87-035-367-010 | | FUSE, 3.15A 250V T E〈E, K, Z〉 |
| **AC VOLTAGE** | | | |
| △SW1 | 87-036-173-010 | | SW, SL 2-2-4 SDKG〈H, HE〉 |
| △SW1 | 87-036-173-010 | | SW, SL 2-2-4 SDKG〈HR〉 |
| **MISCELLANEOUS** | | | |
| △ | 87-050-034-010 | | AC CORD ASSY, E〈HE, HR〉 |
| △ | 87-050-016-010 | | AC CORD ASSY, E〈E, Z〉 |
| △ | 87-050-029-010 | | AC CORD ASSY, K 3P〈K〉 |
| △ | 87-034-749-010 | | AC CORD, H W/PLUG〈H〉 |
| △ | 87-085-184-010 | | BUSHING, AC CORD D〈H〉 |
| △ | 87-085-185-010 | | BUSHING, AC CORD E〈EXCEPT H〉 |
| △PT1 | 82-VP1-624-010 | | PT, 2VP-1 E, K〈E, K, Z〉 |
| △PT1 | 82-VP1-622-010 | | PT, 2VP-1 H〈H, HE〉 |
| △PT1 | 82-VP1-625-010 | | PT, 2VP-1 HR〈HR〉 |

# IC DESCRIPTION (MX—Z7000M)

## IC, SM5840ES

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th colspan="6">Description</th></tr>
<tr><td rowspan="6">1</td><td rowspan="6">WSL1</td><td rowspan="6">I</td><td rowspan="6">Input/output data word length select pin 1 (Connect to GND)</td><td colspan="2">Pin level</td><td rowspan="2">Noise shaper</td><td colspan="2">Onput/output word length</td></tr>
<tr><td>WSL1</td><td>WSL2</td><td>Input bit no.</td><td>Output bit no.</td></tr>
<tr><td>H</td><td>H</td><td>OFF</td><td>18bit</td><td>20bit</td></tr>
<tr><td>H</td><td>L</td><td>ON</td><td>18bit</td><td>18bit</td></tr>
<tr><td>L</td><td>H</td><td>ON</td><td>16bit</td><td>18bit</td></tr>
<tr><td>L</td><td>L</td><td>ON</td><td>16bit</td><td>16bit</td></tr>
<tr><td>2</td><td>CKI</td><td>I</td><td colspan="6">System clock input.</td></tr>
<tr><td>3</td><td>$\overline{\text{CKSL}}$</td><td>I</td><td colspan="6">System clock input (H : 384fs. L : 256fs).(Conneted to VDD)</td></tr>
<tr><td>4</td><td>CKO</td><td>O</td><td colspan="6">System clock output (the CKI clock is buffered and output).(unused)</td></tr>
<tr><td>5</td><td>VSS</td><td>–</td><td colspan="6">GND.</td></tr>
<tr><td>6</td><td>NC</td><td>–</td><td colspan="6">Not connected.</td></tr>
<tr><td>7</td><td>NC</td><td>–</td><td colspan="6">Not connected.</td></tr>
<tr><td>8</td><td>WSL2</td><td>I</td><td colspan="6">Input/output data word length select pin 2.(Conneted to VDD)</td></tr>
<tr><td rowspan="3">9</td><td rowspan="3">DSF1</td><td rowspan="3">I</td><td rowspan="3">Deemphasis select pin 1.</td><td colspan="2">Pin level</td><td colspan="3">Deemphasis</td></tr>
<tr><td>DSF1</td><td>DSF2</td><td>ON/OFF select</td><td colspan="2">fs select</td></tr>
<tr><td>L</td><td>L</td><td>ON</td><td colspan="2">44.1kHz</td></tr>
<tr><td rowspan="3">10</td><td rowspan="3">DSF2</td><td rowspan="3">I</td><td rowspan="3">Deemphasis select pin 2.</td><td>L</td><td>H</td><td>ON</td><td colspan="2">48.0kHz</td></tr>
<tr><td>H</td><td>H</td><td>ON</td><td colspan="2">32.0kHz</td></tr>
<tr><td>H</td><td>L</td><td>OFF</td><td colspan="2">–</td></tr>
<tr><td>11</td><td>$\overline{\text{RST}}$</td><td>I</td><td colspan="6">System reset.</td></tr>
<tr><td>12</td><td>BCKO</td><td>O</td><td colspan="6">Output bit clock.</td></tr>
<tr><td>13</td><td>DOR</td><td>O</td><td colspan="6">Rch 8fs data output.</td></tr>
<tr><td>14</td><td>DOL</td><td>O</td><td colspan="6">Lch 8fs data output.</td></tr>
<tr><td>15</td><td>WCKO</td><td>O</td><td colspan="6">Output word clock.</td></tr>
<tr><td>16</td><td>VDD</td><td>–</td><td colspan="6">Power pin.</td></tr>
<tr><td>17</td><td>NC</td><td>–</td><td colspan="6">Not connected.</td></tr>
<tr><td>18</td><td>NC</td><td>–</td><td colspan="6">Not connected.</td></tr>
<tr><td>19</td><td>NC</td><td>–</td><td colspan="6">Not connected.</td></tr>
<tr><td>20</td><td>LRCI</td><td>I</td><td colspan="6">Input data sample rate (fs) clock.</td></tr>
<tr><td>21</td><td>BCKI</td><td>I</td><td colspan="6">Input bit clock.</td></tr>
<tr><td>22</td><td>DIN</td><td>I</td><td colspan="6">Input data.</td></tr>
</table>

## IC, CXD2701Q

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | I-MODE | I | Input data format setting terminal. (Connected to VDD) |
| 2 | I-DIR | I | |
| 3 | I-DATA | I | 1-sampling 2-channel serial data input terminal. Data formatted as 2's complement. |
| 4 | I-BCK | I | Serial data transmission clock input. |
| 5 | I-LRCK | I | Serial I/O sampling clock input. L channel data transmission when "H", R channel data transmission when "L". |
| 6 | VSS1 | — | GND. |
| 7 | O-DATA | O | Serial data output. (2's complement) |
| 8 | O-BCK | O | Bit clock output. 64 slots. |
| 9 | O-LRK | O | Serial data sampling clock output. |
| 10 | BS1 | I | Output data bit quantity setting terminal. (Connected to VDD) |
| 11 | BS2 | I | Output data bit quantity setting terminal. (Connected to GND) |
| 12 | O-DIR | I | Output data format setting terminal. (Connected to VDD) |
| 13 | VSS3 | — | GND. |
| 14 | SCK | O | System clock output. fsck = fxt = 512fs |
| 15 | XOUT | O | X'tal oscillation circuit output. (22.57MHz) |
| 16 | XIN | I | X'tal oscillation circuit input. fxt = 512fs (22.57MHz) |
| 17 | VDD1 | — | Power supply. (+5V) |
| 18 | I/O4 | I/O | Data input/output for external dynamic RAM. |
| 19 | I/O3 | I/O | |
| 20 | CAS | O | Column address strobe output for external dynamic RAM. |
| 21 | I/O2 | I/O | Data input/output for external dynamic RAM. |
| 22 | I/O1 | I/O | |
| 23 | $\overline{\text{WE}}$ | O | Write enable output for external dynamic RAM. "L" active. |
| 24 | A0 | O | Address output for external dynamic RAM. |
| 25 | RAS | O | Row address strobe for external dynamic RAM. |
| 26 | A1 | O | Address output for external dynamic RAM. |
| 27 | A2 | O | |
| 28 | VSS2 | — | GND. |
| 29<br>~<br>34 | A3<br>~<br>A8 | O | Address output for external dynamic RAM. |
| 35 | TEST1 | I | Test terminal. (Connected to GND) |
| 36 | TEST2 | I | |
| 37 | TEST3 | I | |
| 38 | TEST0 | O | Test terminal. (Not used) |
| 39 | VDD2 | — | Power supply. (+5V) |
| 40 | PRGD | I | Serial data input to receive commands, coefficients and control signals from microcomputer. |
| 41 | PRGCK | I | Serial clock input for PRGD data. Data is latched at the starting edge of the clock. |
| 42 | PRGL | I | Input to latch serial data from microcomputer in IC. "L" active. |
| 43 | INIT | I | Initializing input. "L" active. Put in sync again at leading edge. |
| 44 | OVF | O | Not used. |

## IC, CXP82324-12

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | I-$\overline{\text{HOLD}}$ | I | HOLD input. "L": HOLD mode.<br>"H": Normal mode. |
| 2 | I-REMOTE | I | Remote control input. |
| 3 | NC | — | Not used. |
| 4 | O-CE (M-EVR) | O | Not used. |
| 5 | NC | — | Not used. |
| 6 | O-CE (DSP) | O | Strobe output for DSP microcomputer. |
| 7 | O-CE (EVR) | O | Strobe output for electrical volume. |
| 8 | O-CLK (DSP, GEQ) | O | Clock output for DSP and GEQ. |
| 9 | I-DATA (GEQ) | I | Data input from GEQ microcomputer. |
| 10 | O-DATA<br>(DSP, GEQ) | O | Data output for DSP and GEQ. |
| 11 | O-CLK (4094, etc) | O | Clock for shift register and electrical volume. |
| 12 | O-STB SR (4094) | O | Strobe output for shift register. |
| 13 | O-DATA (SR, EVR) | O | Data output for shift register and electrical volume. |
| 14 | O-CE (GEQ) | O | Strobe output for GEQ microcomputer. |
| 15 | I/O-$\overline{\text{SERIAL}}$ | I/O | Serial data for system control. |
| 16<br>~<br>19 | NC | — | Not used. |
| 20 | I-INITIAL | I | Initialize input. (Not used) |
| 21 | O-VOL · LED | O | Volume LED control output. LED lights on when "H". |
| 22 | I-KEY1 | I | A/D input for key input. |
| 23 | I-KEY2 | I | |
| 24 | I-KEY3 | I | Key input. (Power) |
| 25 | I-KEY4 | I | A/D input for key input. |
| 26 | O-SP LEVEL | — | Not used. |
| 27 | NC | — | Not used. |
| 28 | I-MIC | I | Microphone input detection A/D port. Vocal fader switched on at an input of over 0.34V in auto vocal fader mode.<br>Reset time: Fast;1 sec., Slow; 4 sec. |
| 29 | I-VOL | I | A/D input for volume position detection. |
| 30 | $\overline{\text{RESET}}$ | I | Reset input. |
| 31 | EXTAL | — | X'tal terminal. (10.0MHz) |
| 32 | XTAL | — | |
| 33 | VSS | I | GND. |
| 34<br>~<br>45 | NC | — | Not used. |
| 46<br>~<br>60 | O-S14<br>~<br>O-S0 | O | FL display segment output. |
| 61<br>~<br>70 | O-G10<br>~<br>O-G1 | O | FL display grid output. |
| 71 | VFDP | — | FL display power supply. (−31.4V) |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 72 | VDD | — | Power supply. (+5V) |
| 73 | NC | — | Not used. |
| 74 | VOL UP | O | Volume control output. (UP) |
| 75 | VOL DOWN | O | Volume control output. (DOWN) |
| 76 | O-MUTE | O | Mute output. Muting when "H". |
| 77 | O-POWER | O | Power control output. Power on when "L". |
| 78 | NC | — | Not used. |
| 79 | NC | — | |
| 80 | NC | — | |

## IC, CXP81312-333Q

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 ~ 14 | NC | O | Not used. |
| 15 | I-FADER | I | Connected to GND. |
| 16 | I-OVER | I | Not used. |
| 17 | I-FSO | I | Connected to GND. |
| 18 | I-FS1 | I | Connected to GND. |
| 19 | O-CLK2701 | O | Clock signal for CXD2701 control. |
| 20 | O-DATA2701 | O | Serial data for CXD2701 control. |
| 21 | NC | O | Not used. |
| 22 | O-32K | O | Not used. |
| 23 | O-48K | O | Not used. |
| 24 | O-44.1K | O | Not used. |
| 25 | NC | O | Not used. |
| 26 | O-DAT | O | Not used. |
| 27 | O-DIG A | O | Not used. |
| 28 | O-DIG B | O | Not used. |
| 29 | O-K MODE | O | Not used. |
| 30 | O-STB2701 | O | Strobe signal for CXD2701 control. |
| 31 | MP | O | Not used. (connected to GND) |
| 32 | RST | I | Reset signal for microcomputer. |
| 33 | VSS | — | GND. |
| 34 | XTAL | I | X'tal terminal. (4.19MHz) |
| 35 | EXTAL | — | |
| 36 | CSO | I | Connected to VDD. |
| 37 | SIO | I | Connected to VDD. |
| 38 | SOO | O | Not used. |
| 39 | SCKO | O | Not used. |
| 40 | I-STB DSP | I | Strobe signal input from main microcomputer. |
| 41 | I-DATA DSP | I | Data input from main microcomputer. |
| 42 | VDD | I | Connected to VDD. |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 43 | I-CLK | I | Clock input from main microcomputer. |
| 44 | I-BAND | I | Connected to GND. |
| 45 ~ 51 | | I | Connected to GND. |
| 52 | VSS | — | GND. |
| 53 | VREF | — | Connected to VDD. |
| 54 | VDD | — | Power supply. (+4.5V) |
| 55 ~ 62 | PG7 ~ PG0 | I | Connected to VDD. |
| 63 ~ 68 | | O | Not used. |
| 69 | PEI | I | Connected to VDD. |
| 70 | PEO | I | Connected to VDD. |
| 71 | NMI | I | Connected to VDD. |
| 72 | VDD | — | Power supply. (+4.5V) |
| 73 | VSS | — | GND. |
| 74 ~ 80 | | O | Not used. |

## IC, PCM69AU

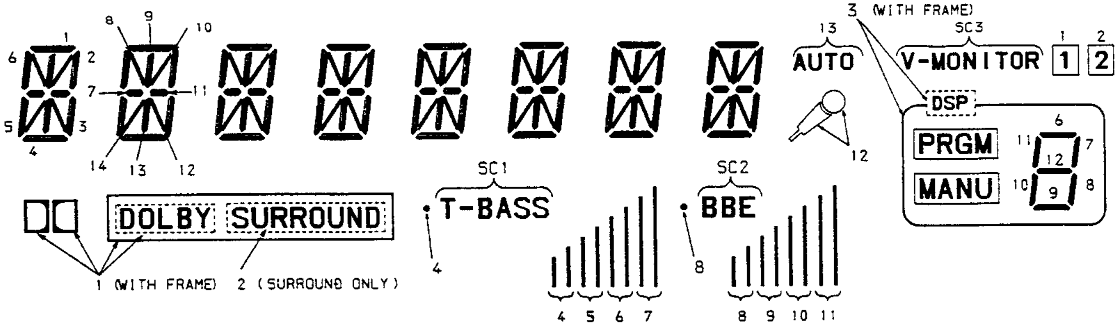
| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | +VCC | — | Power supply. (+5V) |
| 2 | V COM (L) | O | V common for L-channel. |
| 3 | NC | — | Not used. |
| 4 | I-OUT (L) | O | Current output for L-channel. |
| 5 | SERVO DC | — | Servo filter. Bypassed via capacitor to GND. |
| 6 | REF DC | — | Reference filter. Bypassed via capacitor to GND. |
| 7 | I-OUT (R) | O | Current output for R-channel. |
| 8 | NC | — | Not used. |
| 9 | V COM (R) | O | V common for R-channel. |
| 10 | A GND | — | Analog GND. |
| 11 | D GND | — | Digital GND. |
| 12 | TP2 | I | Test terminal 2. (Connected to GND) |
| 13 | DATA (R) | I | Data input for R-channel. |
| 14 | BCK | I | Bit clock input. |
| 15 | SYS-CLK | I | System clock input. |
| 16 | WDCK | I | Word clock input. |
| 17 | DATA (L) | I | Data input for L-channel. |
| 18 | TP3 | I | Test terminal 3. (Not used) |
| 19 | TP1 | I | Test terminal 1. (Connected to VDD) |
| 20 | +VDD | — | Power supply. (+4.5V) |

## IC, TMS44C256-10N

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | I/O1 | I/O | Data input/output. |
| 2 | I/O2 | I/O | |
| 3 | WE | — | Write enable output. |
| 4 | RAS | — | Row address strobe signal. |
| 5 | NC | — | Not used. |
| 6<br>≀<br>9 | A0<br>≀<br>A3 | I | Address input. |
| 10 | VDD | — | Power supply. (+5V) |
| 11<br>≀<br>15 | A4<br>≀<br>A8 | I | Address input. |
| 16 | OE | — | Output enable signal. |
| 17 | CAS | — | Column address strobe signal. |
| 18 | I/O3 | I/O | Data input/output. |
| 19 | I/O4 | I/O | |
| 20 | VSS | — | GND. |

# FL/IC BLOCK DIAGRAM—1 (MX—Z7000M)

## FL, FIP11BYM7

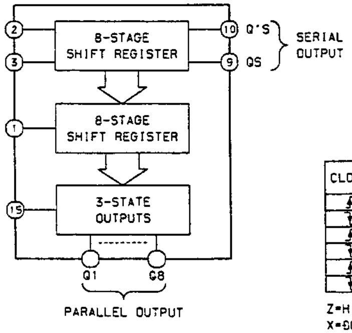

1
2
3
4
5
6
7
8
9
10
11
12
13
14
3 (WITH FRAME)
13
SC3
AUTO
V-MONITOR
1
2
DSP
PRGM
MANU
6
7
8
9
10
11
12
SC1
T-BASS
SC2
BBE
DOLBY SURROUND
1 (WITH FRAME)
2 (SURROUND ONLY)
4
8
4 5 6 7
8 9 10 11

TERMINAL CONNECTION

| TERMINAL NO.<br>ELECTRODE | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TERMINAL NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| ELECTRODE | F2 | F2 | NP | P<br>14 | P<br>13 | P<br>12 | P<br>11 | P<br>10 | P<br>9 | P<br>8 | P<br>7 | P<br>6 | P<br>5 | P<br>4 | P<br>3 | P<br>2 | P<br>1 | P<br>SC3 |
| TERMINAL NO. | | | | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| ELECTRODE | | | | P<br>SC2 | P<br>SC1 | NP | NP | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 1G | 2G | NP | F1 | F1 |

NOTES F:FILAMENT NP:NO PIN
G:GRID
P:ANODE

## IC, BU4094B


8-STAGE SHIFT REGISTER
8-STAGE SHIFT REGISTER
3-STATE OUTPUTS
2
3
1
15
10
9
Q'S
QS
SERIAL OUTPUT
Q1
Q8
PARALLEL OUTPUT

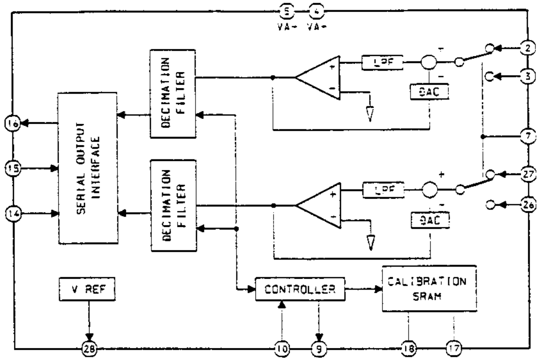
Q1:O.DOLBY ON
Q2:O.DOLBY C
Q3:O.EXT.REC
Q4:O.INT.REC
Q5:O.PLAY
Q6:O.PB2
Q7:O.LED
Q8:O.RMT

TRUTH TABLE

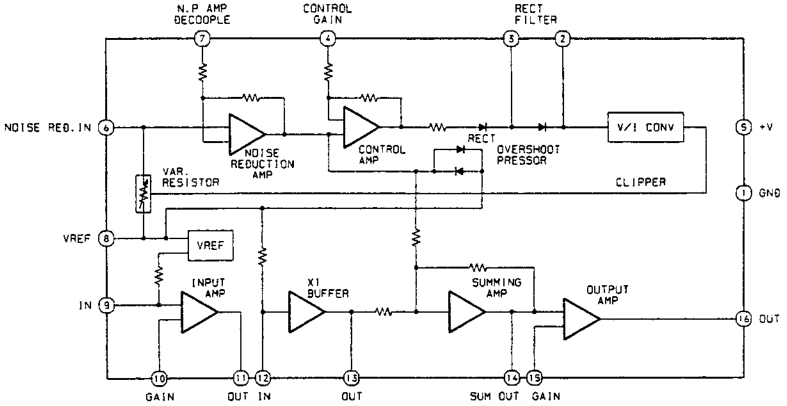
| CLOCK | OUTPUT OUTPUT | STROBE | DATA | PARALLEL OUTPUTS | | SERIAL OUTPUTS | |
|---|---|---|---|---|---|---|---|
| | | | | Q1 | Q2 | QS | QS |
| ↑ | L | X | X | Z | Z | Q7 | NO CHG. |
| ↓ | L | X | X | Z | Z | NO CHG. | QS |
| ↑ | H | L | X | NO CHG. | NO CHG. | Q7 | NO CHG. |
| ↓ | H | H | L | L | Qn-1 | Q7 | NO CHG. |
| ↑ | H | H | H | H | Qn-1 | Q7 | NO CHG. |
| ↓ | H | X | X | NO CHG. | NO CHG. | NO CHG. | QS |

Z=HIGH IMPEDANCE
X=DON'T CARE

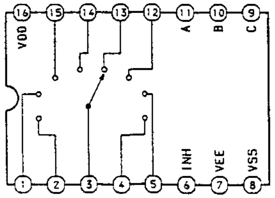
## IC, CS5339—KP


5
4
VA-
VA-
SERIAL OUTPUT INTERFACE
DECIMATION FILTER
DECIMATION FILTER
LPF
DAC
LPF
DAC
V REF
CONTROLLER
CALIBRATION SRAM
16
15
14
2
3
7
27
26
28
10
9
18
17

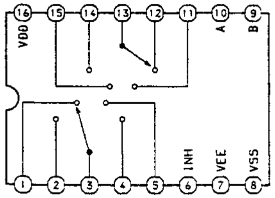
## IC, LA2730


N.P AMP DECOUPLE
CONTROL GAIN
RECT FILTER
7
4
3
2
NOISE RED. IN
6
NOISE REDUCTION AMP
CONTROL AMP
RECT
OVERSHOOT PRESSOR
V/I CONV
5 +V
1 GND
CLIPPER
VAR. RESISTOR
VREF
8
VREF
IN
9
INPUT AMP
X1 BUFFER
SUMMING AMP
OUTPUT AMP
16 OUT PUT
10
11
12
13
14
15
GAIN
OUT
IN
OUT
SUM OUT
GAIN

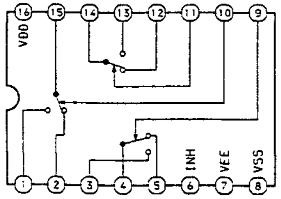
## IC, BU4051B


16
15
14
13
12
11
10
9
VDD
A
B
C
1
2
3
4
5
6
7
8
INH
VEE
VSS

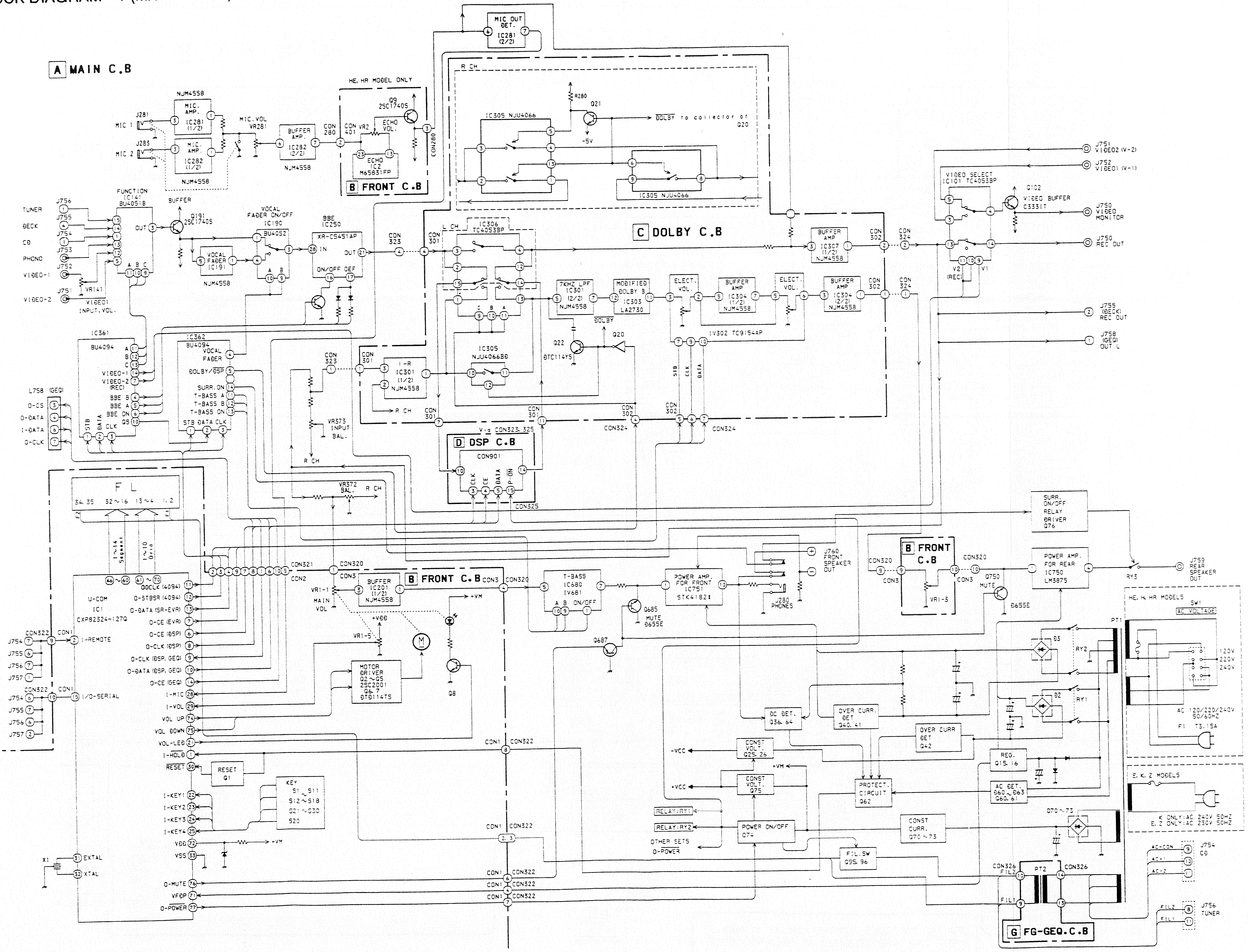
## IC, BU4052B


16
15
14
13
12
11
10
9
VDD
A
B
1
2
3
4
5
6
7
8
INH
VEE
VSS

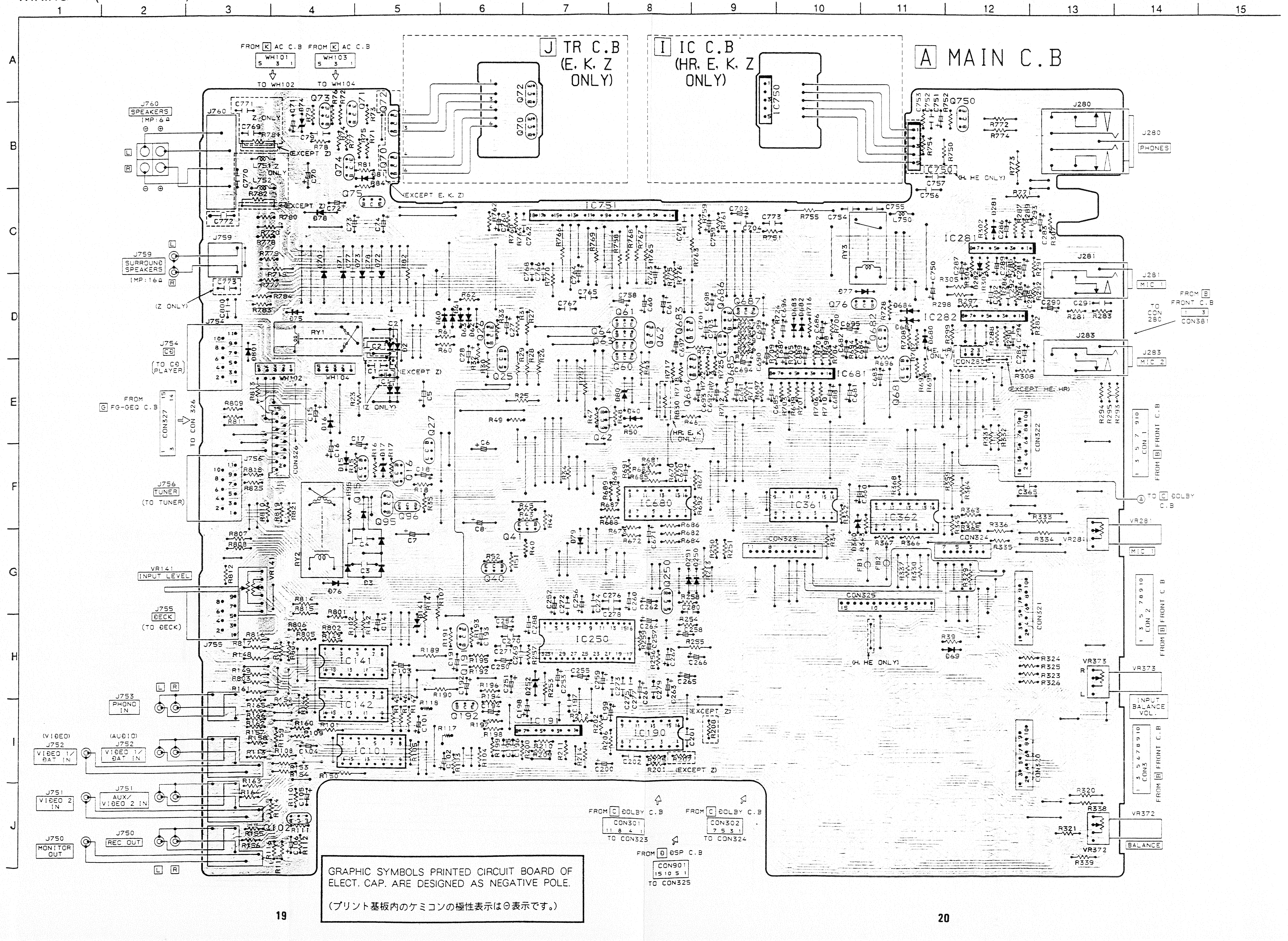
## IC, NJU4053BD


16
15
14
13
12
11
10
9
VDD
C
1
2
3
4
5
6
7
8
INH
VEE
VSS

# BLOCK DIAGRAM—1 (MX—Z7000M)


A MAIN C.B
B FRONT C.B
C DOLBY C.B
D DSP C.B
G FG-GEQ.C.B
MIC OUT DET. IC281 (2/2)
HE, HR MODEL ONLY
MIC 1
MIC 2
J281
J283
MIC. AMP. IC281 (1/2)
MIC. AMP. IC282 (1/2)
NJM4558
MIC. VOL VR281
BUFFER AMP. IC282 (2/2)
CON 280
CON 401
Q9 2SC1740S
ECHO VOL.
ECHO IC2 M65831FP
CON280
R CH
R280
Q21
DOLBY to collector of Q20
-5V
IC305 NJU4066
TUNER
DECK
CD
PHONO
VIDEO-1
VIDEO-2
J756
J755
J754
J753
J752
J751
FUNCTION IC141 BU4051B
BUFFER
Q191 2SC1740S
VOCAL FADER ON/OFF IC190 BU4052
VOCAL FADER IC191
VR141 VIDEO1 INPUT.VOL.
BBE IC250 XR-CS451AP
ON/OFF DEF
CON 323
CON 301
L CH
IC306 TC4053BP
BUFFER AMP IC307 (1/2) NJM4558
CON 302
CON 324
7KHZ LPF IC301 (2/2) NJM4558
MODIFIED DOLBY B IC303 LA2730
ELECT. VOL.
BUFFER AMP IC304 (1/2) NJM4558
BUFFER AMP IC304 (2/2) NJM4558
IV302 TC9154AP
IC305 NJU4066BD
Q22 DTC114YS
Q20
STB CLK DATA
IC361 BU4094
IC362 BU4094
VOCAL FADER
DOLBY/DSP
SURR. ON
T-BASS A
T-BASS B
T-BASS ON
BBE B
BBE A
BBE ON
DS
STB DATA CLK
L758 (GEQ)
D-CS
D-DATA
I-DATA
D-CLK
VR373 INPUT BAL.
I-R IC301 (1/2) NJM4558
Via CON323, 325
CON901
CLK CE DATA P-ON
CON325
VR372 BAL.
J751 VIDEO2 (V-2)
J752 VIDEO1 (V-1)
VIDEO SELECT IC101 TC4053BP
Q102 VIDEO BUFFER C3331T
J750 VIDEO MONITOR
J750 REC OUT
J755 (DECK) REC OUT
J758 (GEQ) OUT L
SURR. ON/OFF RELAY DRIVER Q76
FL
34, 35 32~16 13~4 1, 2
1~14 Segment
1~10 Grid
U-COM IC1 CXP82324-127Q
DOCLK (4094)
O-STBSR (4094)
O-DATA (SR-EVR)
O-CE (EVR)
O-CE (DSP)
O-CLK (DSP)
O-CLK (DSP, GEQ)
O-DATA (DSP, GEQ)
O-CE (GEQ)
I-MIC
I-VOL
VOL UP
VOL DOWN
VOL-LED
I-HOLD
RESET
I-KEY1
I-KEY2
I-KEY3
I-KEY4
VDD
VSS
EXTAL
XTAL
X1
O-MUTE
VFDP
O-POWER
I-REMOTE
I/O-SERIAL
CON322
CON1
J754
J755
J756
J757
RESET Q1
KEY S1~S11 S12~S18 S21~S30 S20
CON321
CON320
CON3
CON2
BUFFER IC201 (1/2) NJM4558
VR1-1 MAIN VOL
+VM
+VDD
VR1-5
M
MOTOR DRIVER Q2~Q5 2SC2001 Q6, 7 DTB114TS
Q8
T-BASS IC680 IV681
A B ON/OFF
Q685 MUTE D655E
Q687
POWER AMP. FOR FRONT IC751 STK4182II
J760 FRONT SPEAKER OUT
J280 PHONES
B FRONT C.B
VR1-3
Q750 MUTE D655E
POWER AMP. FOR REAR IC750 LM3875
RY3
J759 REAR SPEAKER OUT
HE, H, HR MODELS
SW1 AC VOLTAGE
120V 220V 240V
AC 120/220/240V 50/60HZ
F1 T5.15A
E, K, Z MODELS
K ONLY:AC 240V 50HZ
E, Z ONLY:AC 230V 50HZ
PT1
RY2
RY1
D3
D2
DC DET. Q36, 64
OVER CURR. DET Q40, 41
OVER CURR DET Q42
-VCC
+VCC
CONST VOLT. Q25, 26
CONST VOLT. Q75
+VM
PROTECT CIRCUIT Q62
REG. Q15, 16
AC DET. D60~D63 Q60, 61
D70~73
RELAY:RY1
RELAY:RY2
POWER ON/OFF Q74
OTHER SETS O-POWER
CONST CURR. Q70~73
FIL.SW Q95, 96
CON326
FIL2
PT2
FIL1
AC-CON
AC-1
AC-2
J754 CD
J756 TUNER

# WIRING—1 (MX—Z7000M)



1
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10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J
FROM K AC C.B WH101 5 3 1 TO WH102
FROM K AC C.B WH103 5 3 1 TO WH104
J TR C.B (E, K, Z ONLY)
I IC C.B (HR, E, K, Z ONLY)
A MAIN C.B
J760 SPEAKERS IMP:6Ω
L
R
J759 SURROUND SPEAKERS IMP:16Ω
(Z ONLY)
J754 CD (TO CD PLAYER)
FROM G FG-GEQ C.B CON327 TO CON 326
J756 TUNER (TO TUNER)
VR141 INPUT LEVEL
J755 DECK (TO DECK)
J753 PHONO IN
(VIDEO) J752 VIDEO 1/ DAT IN
(AUDIO) J752 VIDEO 1/ DAT IN
J751 VIDEO 2 IN
J751 AUX/ VIDEO 2 IN
J750 MONITOR OUT
J750 REC OUT
J280 PHONES
J281 MIC 1
J283 MIC 2
FROM B FRONT C.B CON381
TO CON 280
CON 1 FROM B FRONT C.B
TO C DOLBY C.B
VR281 MIC 1
CON 2 FROM B FRONT C.B
VR373 INPUT BALANCE VOL.
CON3 FROM B FRONT C.B
VR372 BALANCE
FROM C DOLBY C.B CON301 11 8 4 1 TO CON323
FROM C DOLBY C.B CON302 7 5 3 1 TO CON324
FROM D DSP C.B CON901 15 10 5 1 TO CON325
(EXCEPT E, K, Z)
(EXCEPT Z)
(Z ONLY)
(H, HE ONLY)
(HR, E, K ONLY)
(EXCEPT HE, HR)
IC751
IC750
IC281
IC282
IC680
IC681
IC361
IC362
IC250
IC141
IC142
IC101
IC191
IC190
RY1
RY2
RY3
CON323
CON324
CON325
CON326
CON321
CON322
CON320
CON280

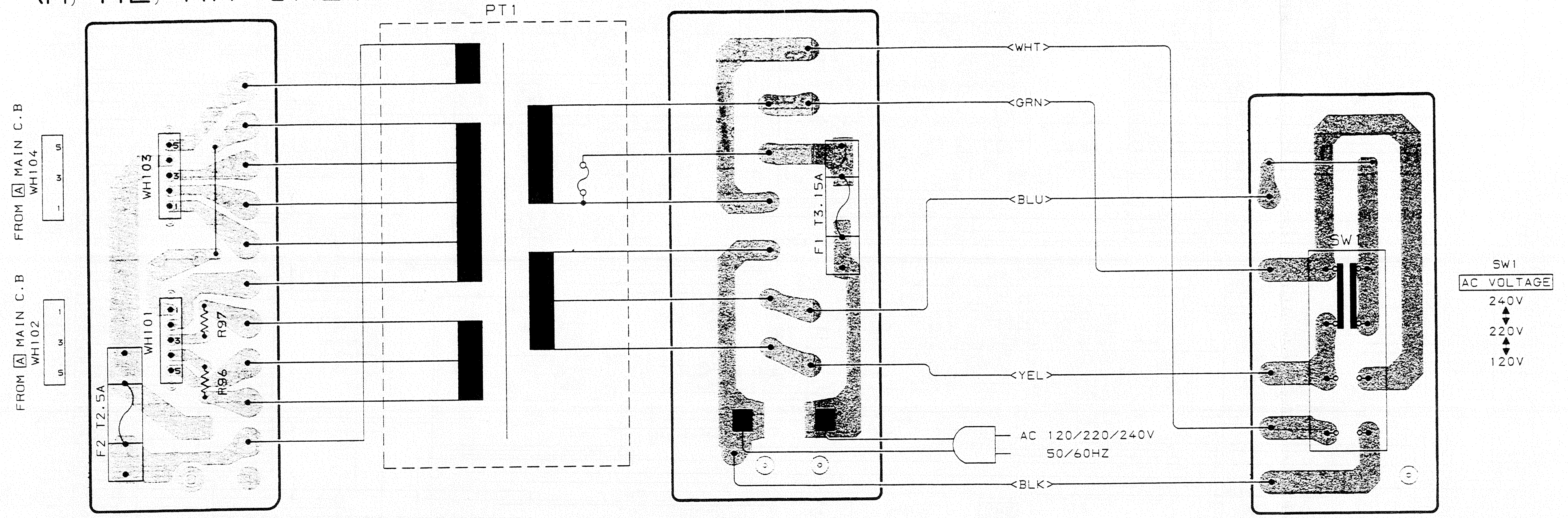
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

# K AC1 C.B (H, HE, HR ONLY)

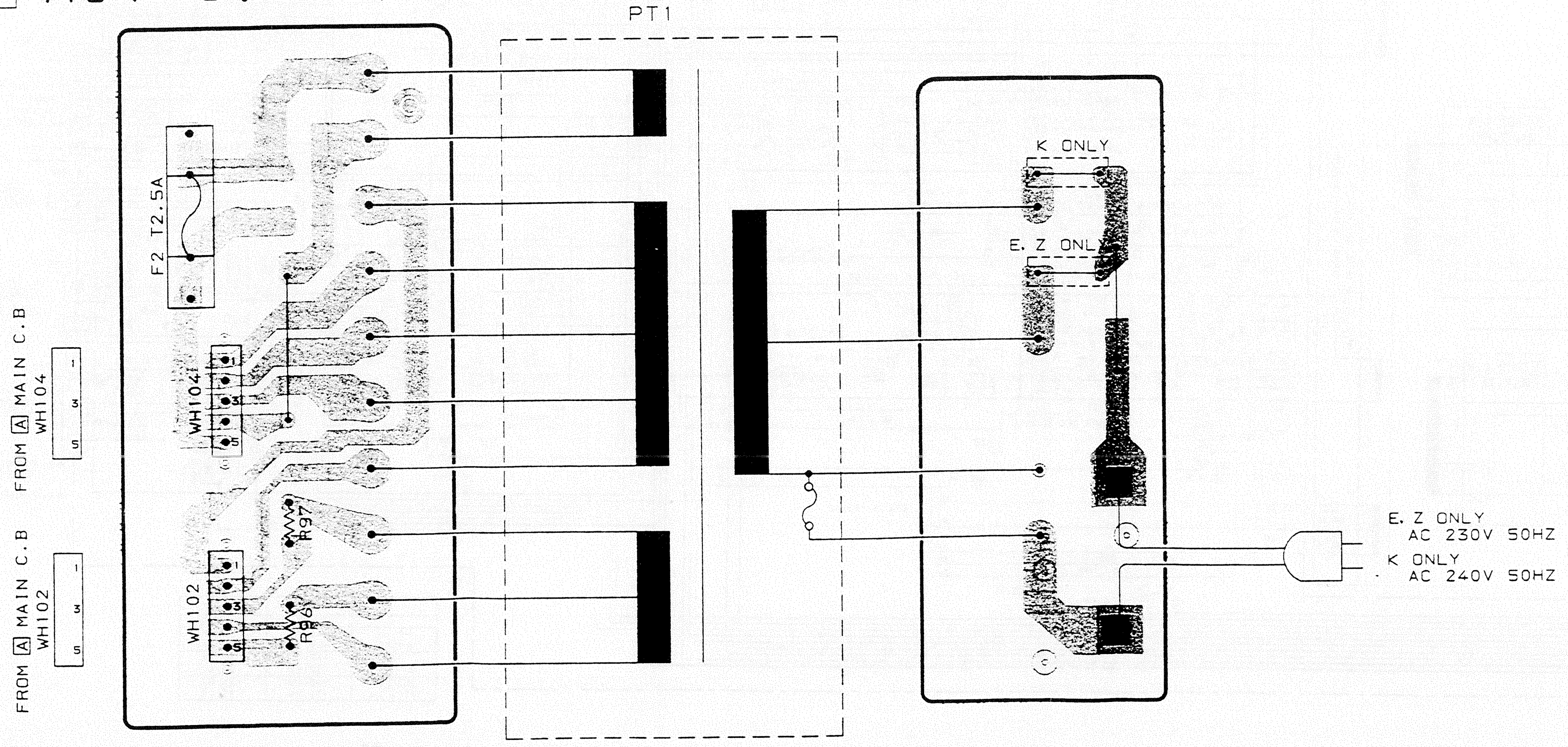
# L AC2 C.B (HR ONLY)

# M AC VOLTAGE C.B (HR ONLY)

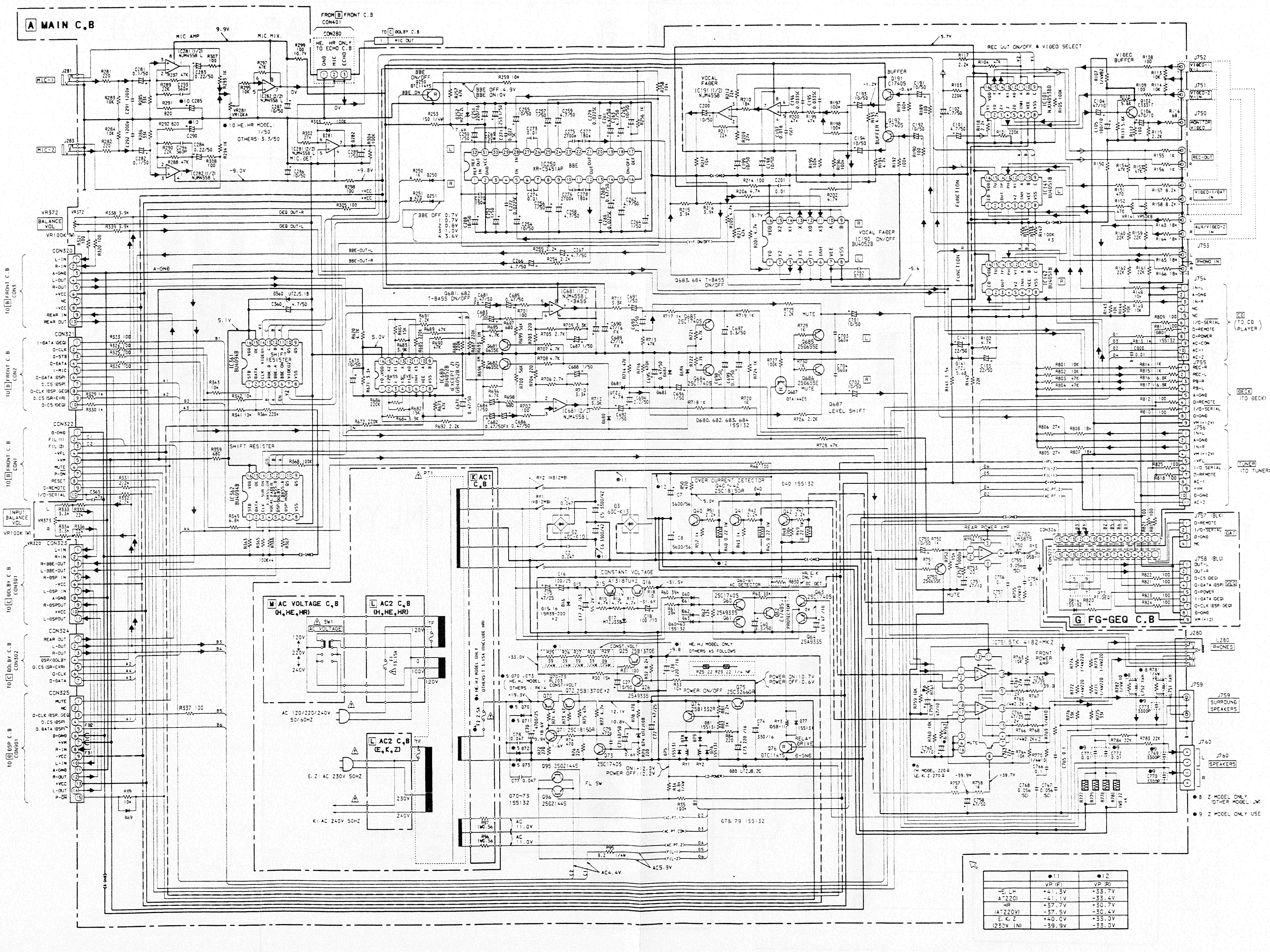

PT1
FROM A MAIN C.B WH104
5
3
1
FROM A MAIN C.B WH102
1
3
5
WH103
WH101
R97
R96
F2 T2.5A
F1 T3.15A
WHT
GRN
BLU
YEL
BLK
AC 120/220/240V
50/60HZ
SW1
SW1
AC VOLTAGE
240V
220V
120V

# K AC1 C.B (E, K, Z ONLY)

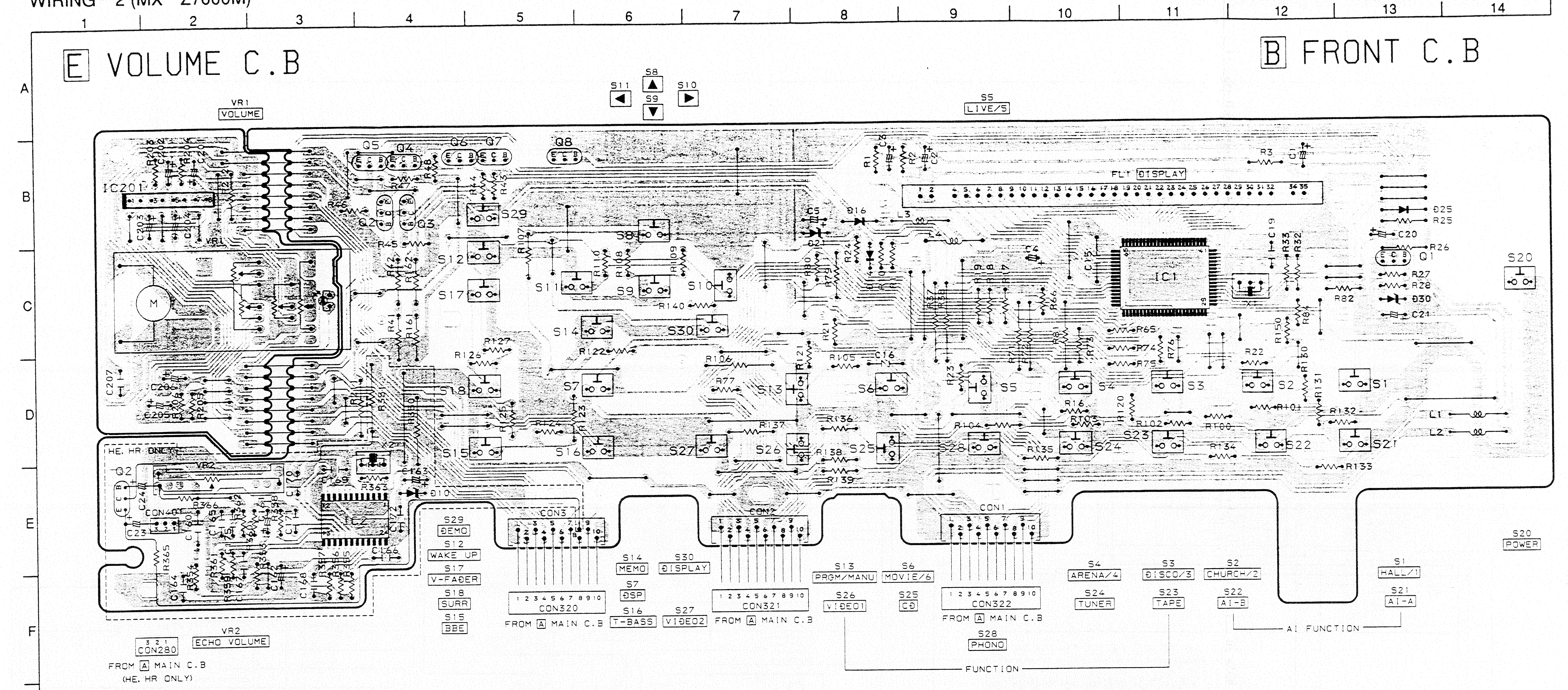
# L AC2 C.B (E, K, Z ONLY)


PT1
F2 T2.5A
FROM A MAIN C.B WH104
1
3
5
FROM A MAIN C.B WH102
1
3
5
WH104
WH102
R97
R96
K ONLY
E, Z ONLY
E, Z ONLY
AC 230V 50HZ
K ONLY
AC 240V 50HZ

# SCHEMATIC DIAGRAM—1 (MX—Z7000M)


A MAIN C.B
MIC AMP
MIC MIX.
MIC-1
MIC-2
FROM B FRONT C.B CON401
CON280
HE, HR ONLY TO ECHO C.B
TO C DOLBY C.B
MIC OUT
REC OUT ON/OFF & VIDEO SELECT
VIDEO BUFFER
VIDEO-1
VIDEO-2
MONITOR VIDEO
REC-OUT
VIDEO-1/DAT
AUX/VIDEO-2
PHONO IN
BBE ON/OFF
IC250 XR-C5451AP BBE
VOCAL FADER
BUFFER
FUNCTION
VR372 BALANCE VOL
INPUT BALANCE VOL
T-BASS ON/OFF
SHIFT RESISTER
LEVEL SHIFT
MUTE
K AC1 C.B
OVER CURRENT DETECTOR
CONSTANT VOLTAGE
REAR POWER AMP
G FG-GEQ C.B
M AC VOLTAGE C.B (H,HE,HR)
L AC2 C.B (H,HE,HR)
L AC2 C.B (E,K,Z)
AC 120/220/240V 50/60HZ
E,Z: AC 230V 50HZ
K: AC 240V 50HZ
FRONT POWER AMP
POWER ON/OFF
RELAY DRIVE
FL SW
CD (TO CD PLAYER)
DECK (TO DECK)
TUNER (TO TUNER)
DAT
GEQ
PHONES
SURROUND SPEAKERS
SPEAKERS
●8 Z MODEL ONLY (OTHER MODEL: JW)
●9 Z MODEL ONLY USE

|  | ●11 | ●12 |
|---|---|---|
|  | VP (F) | VP (R) |
| HE, LH<br>(AT220) | +41.3V<br>-41.1V | +33.7V<br>-33.4V |
| HR<br>(AT220V) | +37.7V<br>-37.5V | +30.7V<br>-30.4V |
| E, K, Z<br>(230V IN) | +40.0V<br>-39.9V | +33.0V<br>-33.0V |


1
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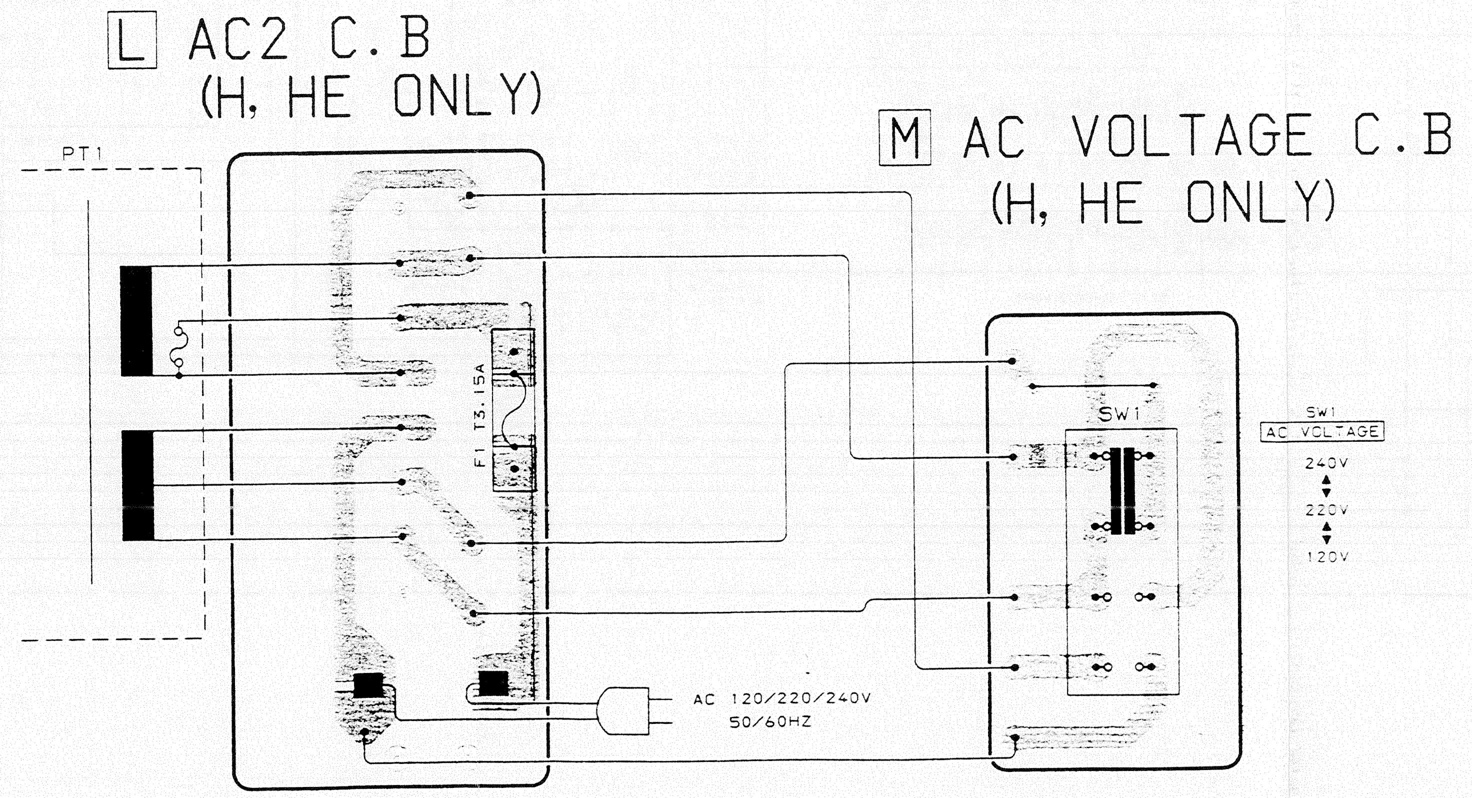
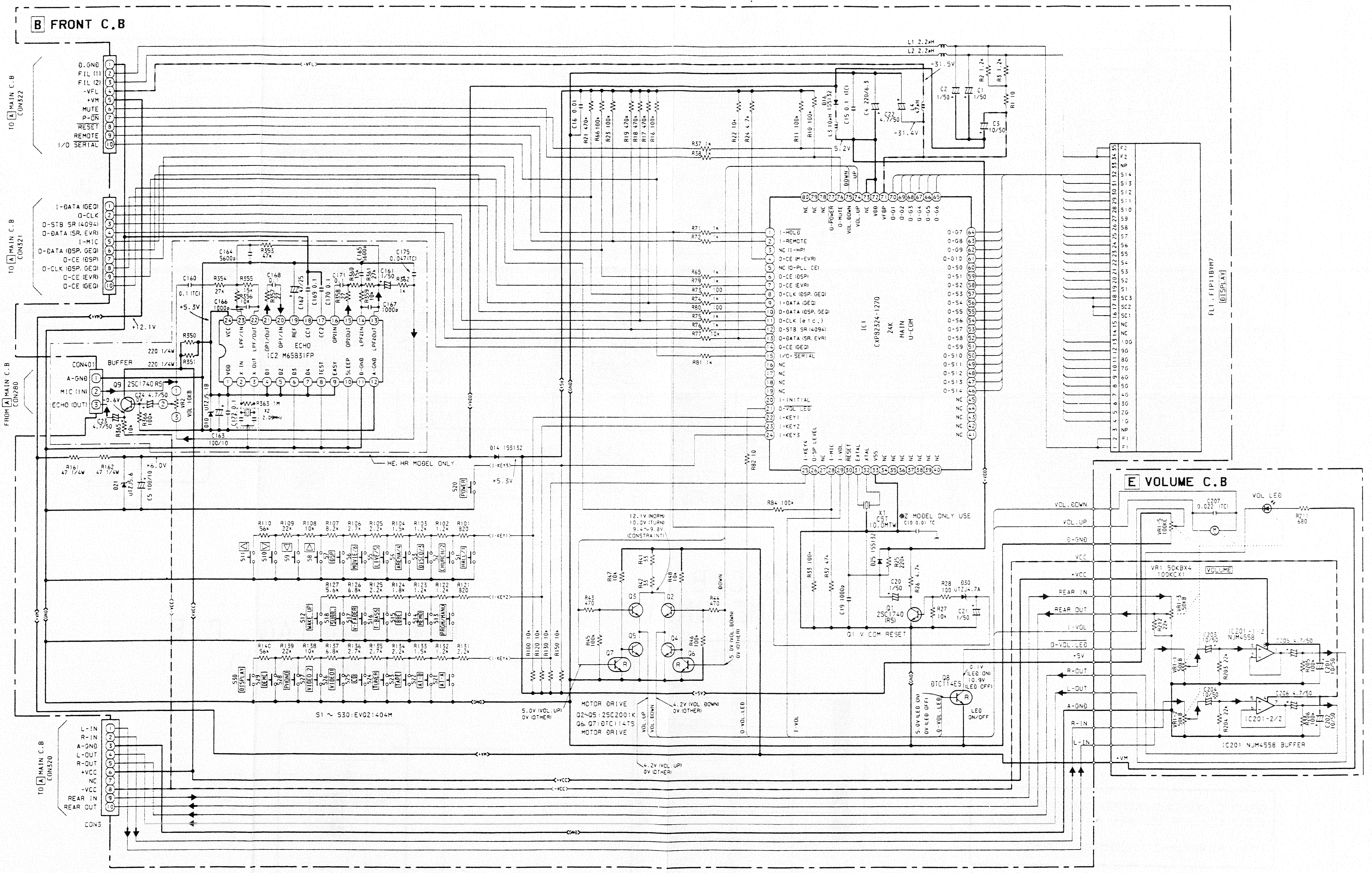
11
12
13
14
A
B
C
D
E
F
E VOLUME C.B
B FRONT C.B
VR1
VOLUME
S8
S11
S9
S10
S5
LIVE/5
IC201
Q5
Q4
Q6
Q7
Q8
Q2
Q3
FL DISPLAY
IC1
Q1
M
S29
S12
S17
S18
S15
S16
S14
S30
S7
S13
S6
S5
S4
S3
S2
S1
S20
S27
S26
S25
S28
S23
S24
S22
S21
L1
L2
D25
R25
C20
R26
R27
R28
D30
C21
HE, HR ONLY
VR2
IC2
CON3
CON2
CON1
S29
DEMO
S12
WAKE UP
S17
V-FADER
S18
SURR
S15
BBE
S14
MEMO
S7
DSP
S16
T-BASS
S30
DISPLAY
S27
VIDEO2
1 2 3 4 5 6 7 8 9 10
CON320
FROM A MAIN C.B
1 2 3 4 5 6 7 8 9 10
CON321
FROM A MAIN C.B
S13
PRGM/MANU
S6
MOVIE/6
S26
VIDEO1
S25
CD
1 2 3 4 5 6 7 8 9 10
CON322
FROM A MAIN C.B
S28
PHONO
FUNCTION
S4
ARENA/4
S24
TUNER
S3
DISCO/3
S23
TAPE
S2
CHURCH/2
S22
AI-B
S1
HALL/1
S21
AI-A
AI FUNCTION
S20
POWER
3 2 1
CON280
FROM A MAIN C.B
(HE, HR ONLY)
VR2
ECHO VOLUME


G
H
I
J
L AC2 C.B
(H, HE ONLY)
M AC VOLTAGE C.B
(H, HE ONLY)
PT1
F1 T3.15A
SW1
SW1
AC VOLTAGE
240V
220V
120V
AC 120/220/240V
50/60HZ

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

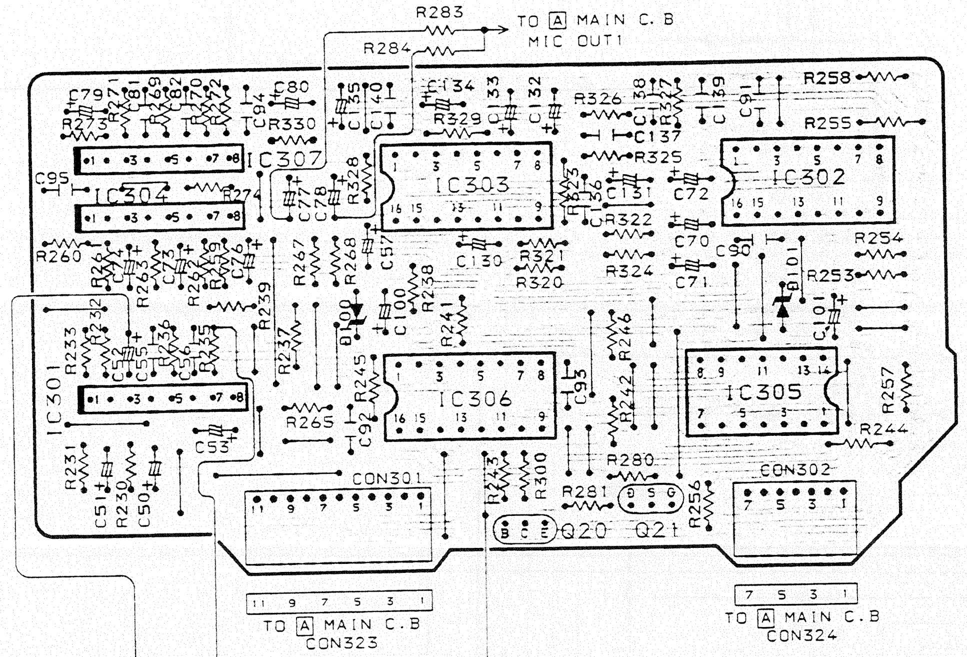
(プリント基板内のケミコンの極性表示は⊖表示です。)

# SCHEMATIC DIAGRAM—2 (MX—Z7000M)

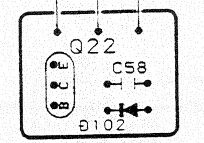

B FRONT C.B
TO A MAIN C.B CON322
D.GND
FIL (1)
FIL (2)
-VFL
+VM
MUTE
P-ON
RESET
REMOTE
I/O SERIAL
TO A MAIN C.B CON321
I-DATA (GEQ)
O-CLK
O-STB SR (4094)
O-DATA (SR, EVR)
I-MIC
O-DATA (DSP, GEQ)
O-CE (DSP)
O-CLK (DSP, GEQ)
O-CE (EVR)
O-CE (GEQ)
FROM A MAIN C.B CON280
CON401
BUFFER
A-GND
MIC (IN)
ECHO (OUT)
Q9 2SC1740RS
ECHO
IC2 M65831FP
HE, HR MODEL ONLY
D14 1SS132
S20 POWER
+5.3V
+6.0V
+12.1V
S1 ~ S30:EVQ21404M
DISPLAY
DEMO
PHONO
VIDEO 2
VIDEO 1
CD
TUNER
TAPE
AI-B
AI-A
WAKE UP
SURROUND
V-SPEED
ECHO
BBE
MEMO
PROGRAM/MANUAL
DSP
MUTE
LIVE
ARENA
DISCO
CHURCH
HALL
TO A MAIN C.B CON520
L-IN
R-IN
A-GND
L-OUT
R-OUT
+VCC
NC
-VCC
REAR IN
REAR OUT
CON3
IC1 CXP92324-127Q 24K MAIN U-COM
MOTOR DRIVE
Q2~Q5:2SC2001K
Q6, Q7:DTC114TS
MOTOR DRIVE
12.1V (NORM)
10.0V (TURN)
9.4~9.8V (CONSTRAINT)
5.0V (VOL.UP) 0V (OTHER)
4.2V (VOL.DOWN) 0V (OTHER)
4.2V (VOL.UP) 0V (OTHER)
X1 CST 10.0MTW
Z MODEL ONLY USE
Q1 V COM RESET
Q1 2SC1740 (RS)
Q8 DTC114ES
LED ON/OFF
0.1V (LED ON)
10.9V (LED OFF)
FL1 FIP11BYM7 DISPLAY
L1 2.2μH
L2 2.2μH
-31.5V
-31.4V
5.2V
E VOLUME C.B
VOL LED
VOL.DOWN
VOL.UP
D-GND
VCC
+VCC
REAR IN
REAR OUT
I-VOL
O-VOL.LED
+5V
R-OUT
L-OUT
A-GND
R-IN
L-IN
+VM
VR1 50KBX4 100KC X1
VOLUME
IC201-1/2 NJM4558
IC201-2/2
IC201 NJM4558 BUFFER

# WIRING—3 (MX—Z7000M)

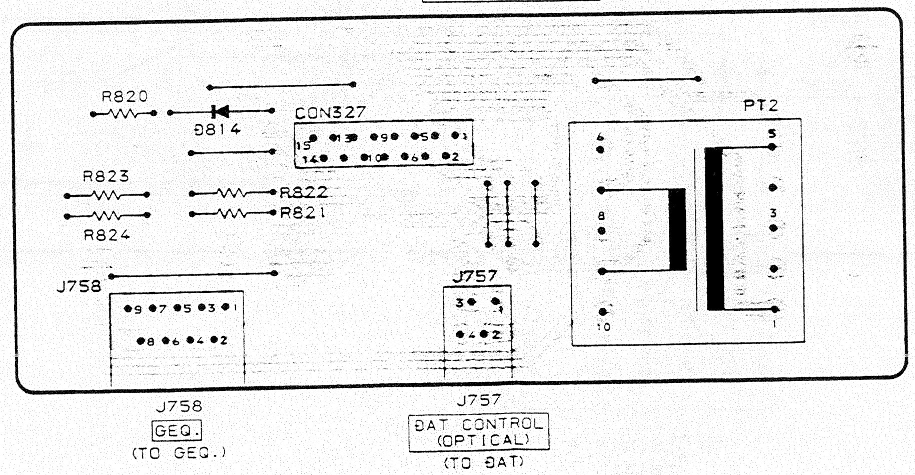
## C DOLBY C.B


R283
R284
TO A MAIN C.B MIC OUT1
IC307
IC304
IC303
IC302
IC301
IC306
IC305
CON301
CON302
Q20
Q21
TO A MAIN C.B CON323
TO A MAIN C.B CON324

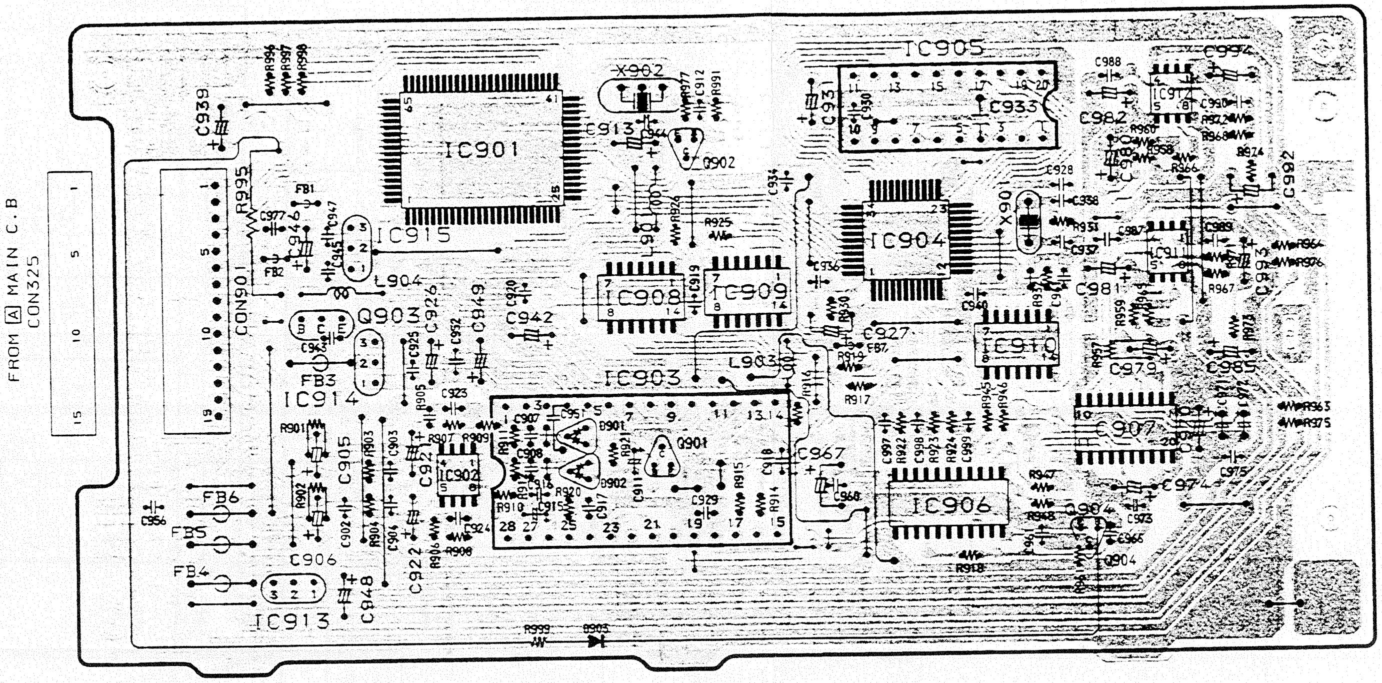
## F SUB C.B


Q22
C58
D102

## G FG-GEQ.C.B


FROM A MAIN C.B CON326
R820
D814
CON327
PT2
R823
R824
R822
R821
J758
J757
J758 GEQ. (TO GEQ.)
J757 DAT CONTROL (OPTICAL) (TO DAT)

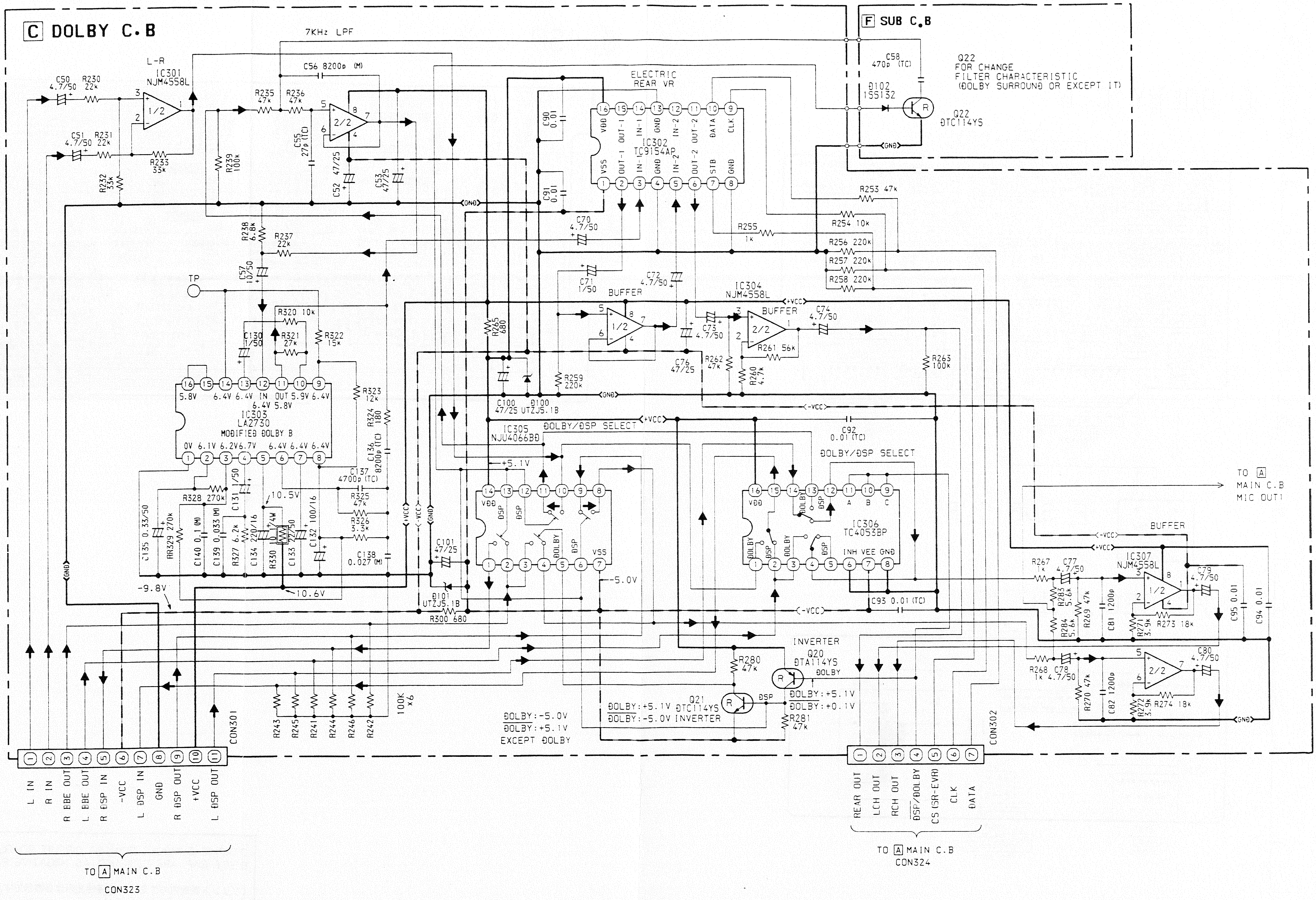
## D DSP C.B


FROM A MAIN C.B CON325
CON901
IC901
X902
IC905
IC904
IC915
IC908
IC909
IC910
IC914
IC903
IC902
IC906
IC907
IC913
Q903
Q901
Q902
Q904

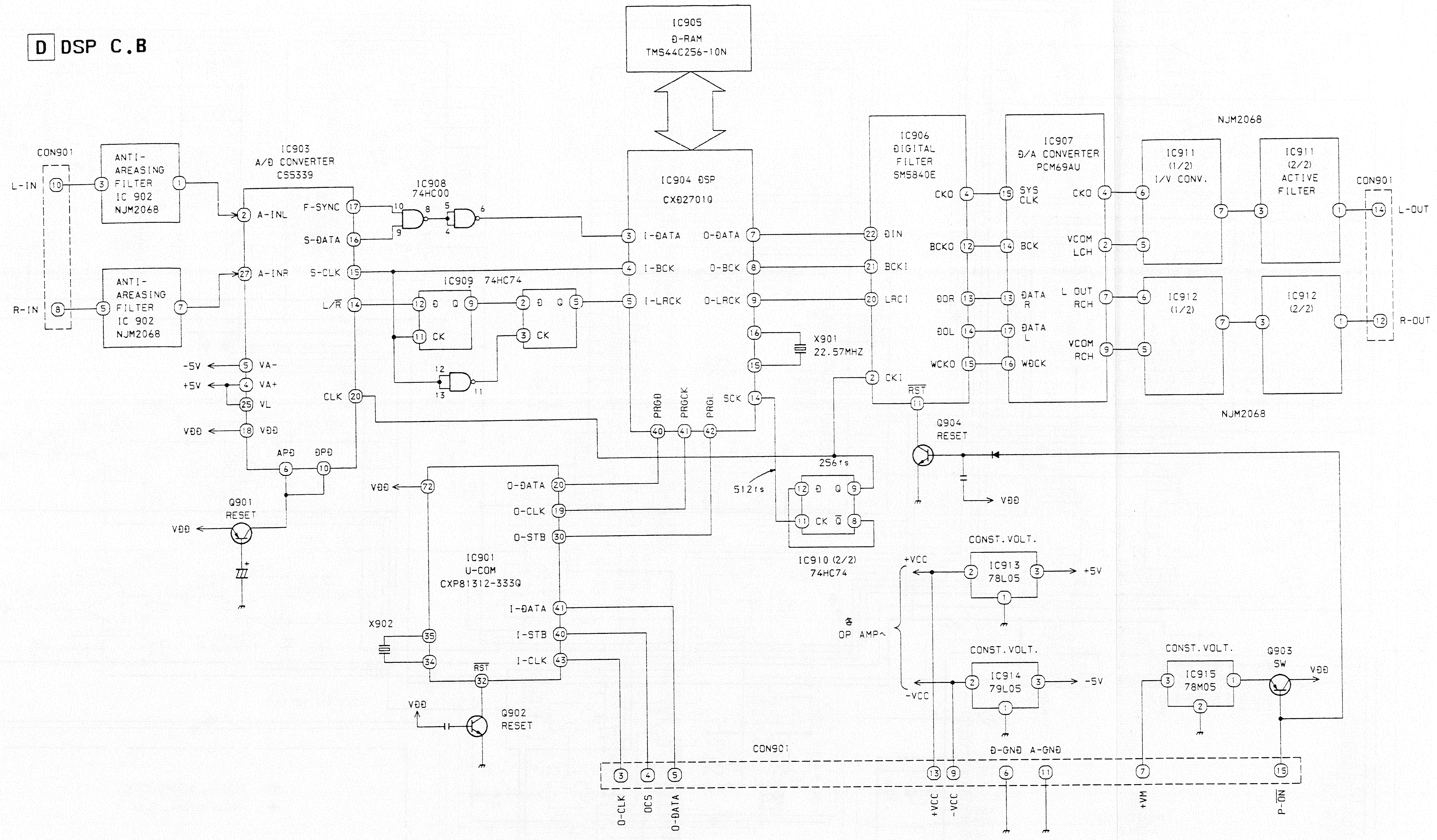
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

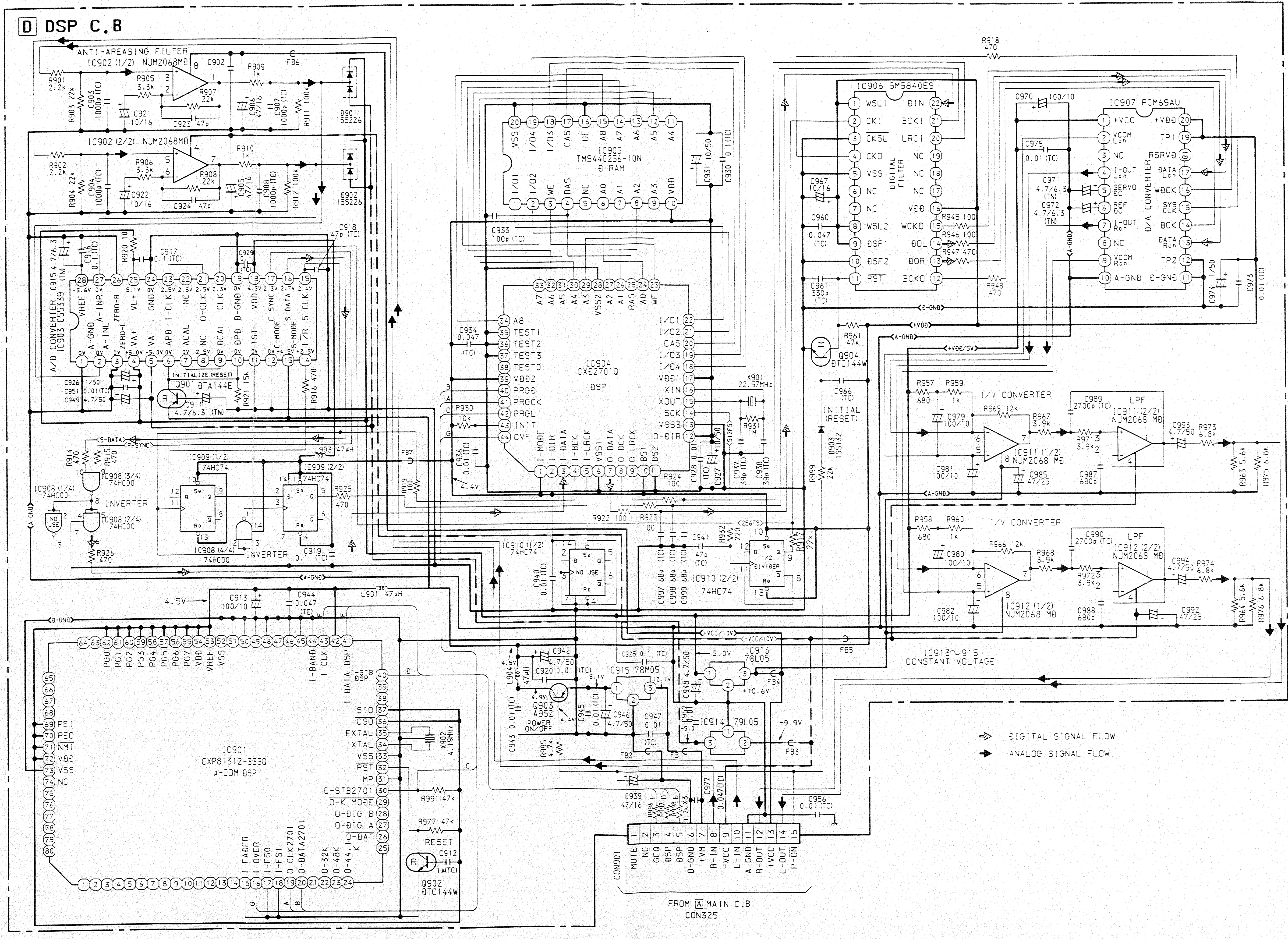
# SCHEMATIC DIAGRAM—3 (MX—Z7000M)


C DOLBY C.B
F SUB C.B
7KHz LPF
L-R
IC301 NJM4558L
C50 4.7/50
R230 22k
C51 4.7/50
R231 22k
R232 33k
R233 33k
C56 8200p (M)
R235 47k
R236 47k
C55 27p (TC)
R239 100k
C52 47/25
C53 47/25
R238 6.8k
R237 22k
C57 10/50
TP
ELECTRIC REAR VR
IC302 TC9154AP
VDD OUT-1 IN-1 GND IN-2 OUT-2 DATA CLK
VSS OUT-1 IN-1 GND IN-2 OUT-2 STB GND
C90 0.01
C91 0.01
C70 4.7/50
C71 1/50
C72 4.7/50
BUFFER
IC304 NJM4558L
C73 4.7/50
C74 4.7/50
C76 47/25
R259 220k
R260 4.7k
R261 56k
R262 47k
R263 100k
R253 47k
R254 10k
R255 1k
R256 220k
R257 220k
R258 220k
C58 470p (TC)
D102 1SS132
Q22 FOR CHANGE FILTER CHARACTERISTIC (DOLBY SURROUND OR EXCEPT IT)
Q22 DTC114YS
R320 10k
C130 1/50
R321 27k
R322 15k
R323 12k
R324 180
IC303 LA2730 MODIFIED DOLBY B
5.8V 6.4V 6.4V IN OUT 5.9V 6.4V
6.4V 5.8V
0V 6.1V 6.2V 6.7V 6.4V 6.4V 6.4V
C136 8200p (TC)
C137 4700p (TC)
R325 47k
R326 3.3k
C138 0.027 (M)
R328 270k
C131 1/50
10.5V
C135 0.33/50
RR329 270k
C140 0.1 (M)
C139 0.033 (M)
R327 6.2k
C134 220/16
R330 1/4W
C133 22/50
C132 100/16
-9.8V
-10.6V
R265 680
C100 47/25
D100 UTZJ5.1B
IC305 NJU4066BD
DOLBY/DSP SELECT
+5.1V
VDD DSP DSP DOLBY DSP VSS
C101 47/25
D101 UTZJ5.1B
R300 680
-5.0V
C92 0.01 (TC)
DOLBY/DSP SELECT
IC306 TC4053BP
VDD DOLBY DSP A B C
INH VEE GND
C93 0.01 (TC)
+VCC
-VCC
GND
INVERTER
Q20 DTA114YS
DOLBY
R280 47k
Q21 DTC114YS
DSP
DOLBY:+5.1V
DOLBY:+0.1V
R281 47k
DOLBY:+5.1V DTC114YS
DOLBY:-5.0V INVERTER
DOLBY:-5.0V
DOLBY:+5.1V
EXCEPT DOLBY
R243 R245 R241 R244 R246 R242
100K x6
CON301
TO A MAIN C.B MIC OUT1
BUFFER
IC307 NJM4558L
R267 1k
C77 4.7/50
R285 5.6k
R284 5.6k
R269 47k
C81 1200p
R271 3.9k
R273 18k
C79 4.7/50
C95 0.01
C94 0.01
R268 1k
C78 4.7/50
R270 47k
C82 1200p
R272 3.9k
R274 18k
C80 4.7/50
CON302
① L IN
② R IN
③ R EBE OUT
④ L EBE OUT
⑤ R DSP IN
⑥ -VCC
⑦ L DSP IN
⑧ GND
⑨ R DSP OUT
⑩ +VCC
⑪ L DSP OUT
TO A MAIN C.B CON323
① REAR OUT
② LCH OUT
③ RCH OUT
④ DSP/DOLBY
⑤ CS (SR-EVR)
⑥ CLK
⑦ DATA
TO A MAIN C.B CON324

# BLOCK DIAGRAM—2 (MX—Z7000M)


D DSP C.B
IC905
D-RAM
TMS44C256-10N
CON901
L-IN
R-IN
ANTI-AREASING FILTER IC 902 NJM2068
IC903
A/D CONVERTER
CS5339
A-INL
A-INR
F-SYNC
S-DATA
S-CLK
L/R
VA-
VA+
VL
VDD
CLK
APD
DPD
-5V
+5V
Q901
RESET
IC908
74HC00
IC909 74HC74
D Q
CK
IC904 DSP
CXD2701Q
I-DATA
I-BCK
I-LRCK
O-DATA
O-BCK
O-LRCK
X901
22.57MHZ
SCK
PRGD
PRGCK
PRGL
256fs
512fs
IC910 (2/2)
74HC74
IC906
DIGITAL FILTER
SM5840E
CKO
BCKO
DOR
DOL
WCKO
DIN
BCKI
LRCI
CKI
RST
IC907
D/A CONVERTER
PCM69AU
SYS CLK
BCK
DATA R
DATA L
WDCK
VCOM LCH
L OUT RCH
VCOM RCH
NJM2068
IC911 (1/2)
I/V CONV.
IC911 (2/2)
ACTIVE FILTER
IC912 (1/2)
IC912 (2/2)
L-OUT
R-OUT
Q904
RESET
IC901
U-COM
CXP81312-333Q
O-DATA
O-CLK
O-STB
I-DATA
I-STB
I-CLK
X902
Q902
RESET
CONST.VOLT.
IC913
78L05
IC914
79L05
IC915
78M05
+VCC
-VCC
& OP AMP
Q903
SW
D-GND A-GND
O-CLK
OCS
O-DATA
+VCC
-VCC
+VM
P-ON

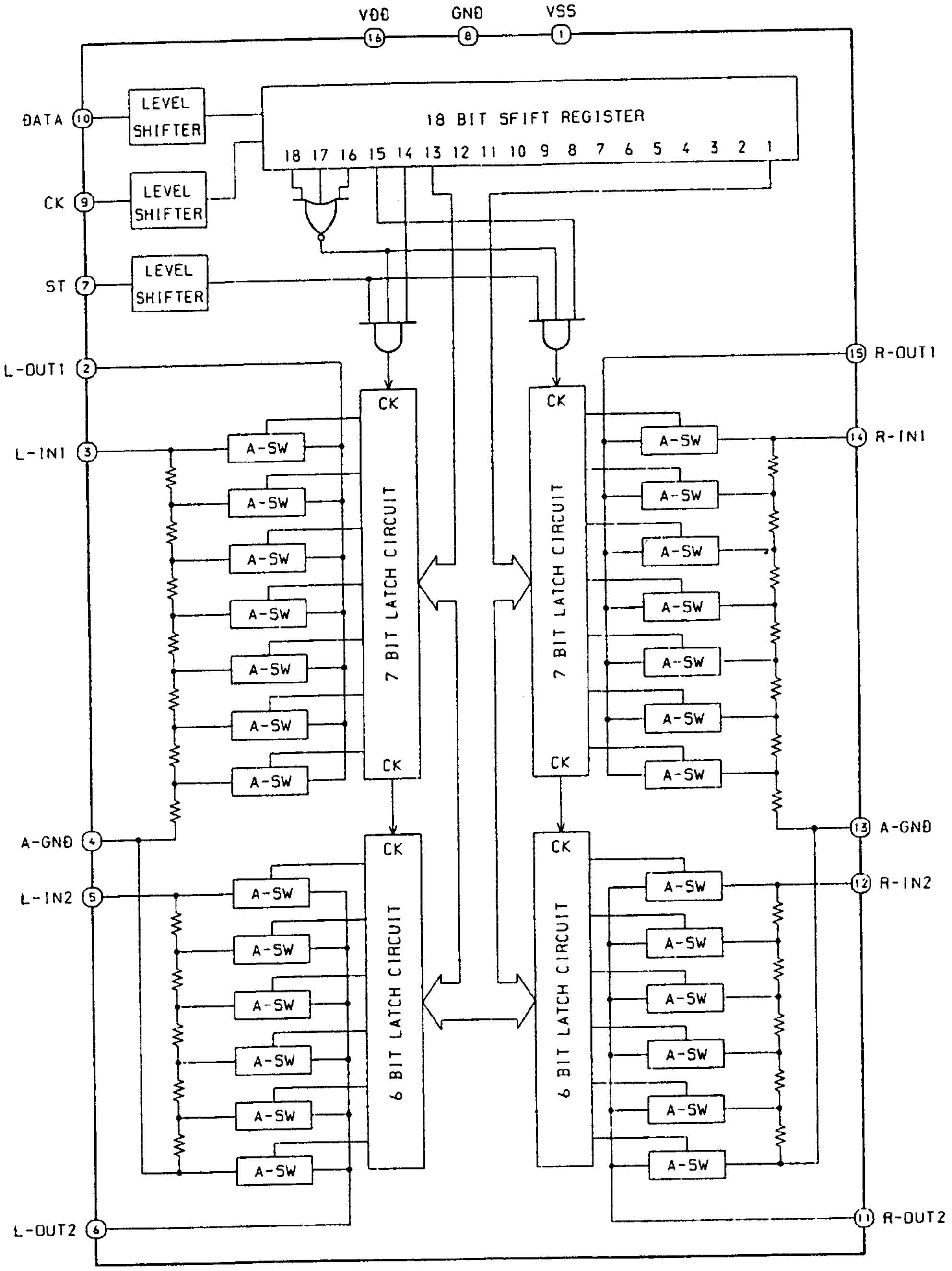
# SCHEMATIC DIAGRAM—4 (MX—Z7000M)



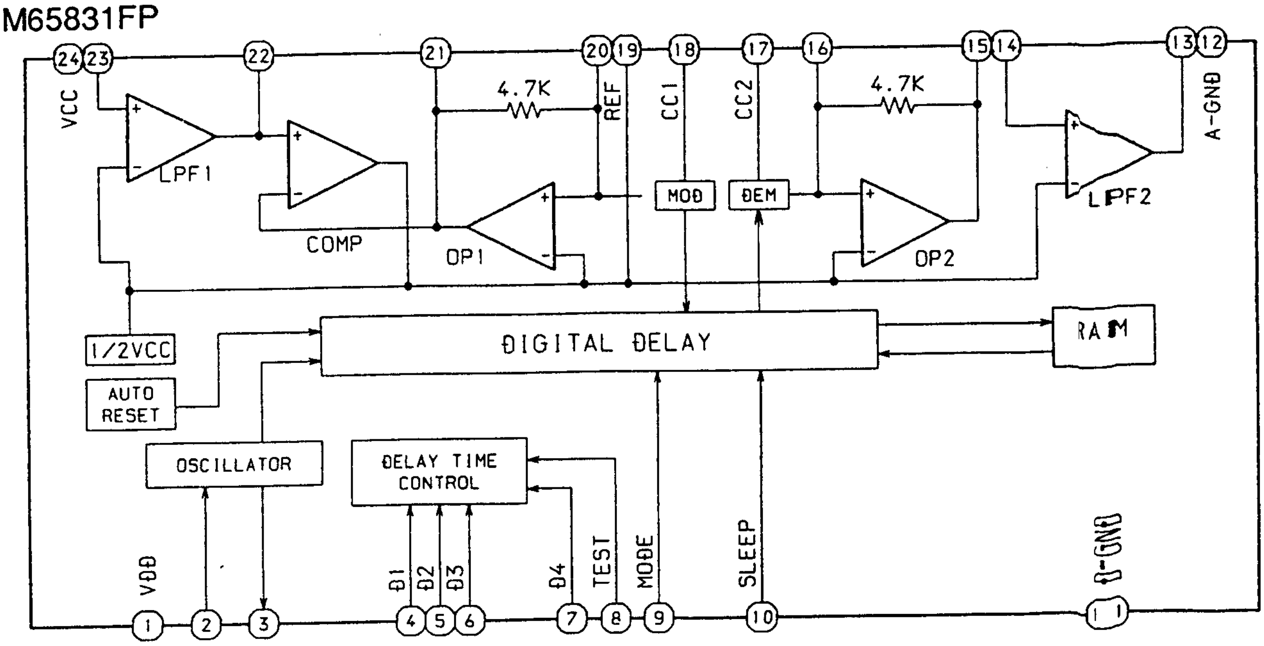
D DSP C.B
ANTI-AREASING FILTER
IC902 (1/2) NJM2068MD
IC902 (2/2) NJM2068MD
D901 1SS226
D902 1SS226
IC903 CS5339 A/D CONVERTER
Q901 DTA144E
INITIALIZE (RESET)
IC905 TMS44C256-10N D-RAM
IC904 CXD2701Q DSP
X901 22.57MHz
IC906 SM5840ES DIGITAL FILTER
IC907 PCM69AU D/A CONVERTER
Q904 DTC144W
INITIAL (RESET)
D903 1SS132
I/V CONVERTER
LPF
IC911 (1/2) NJM2068 MD
IC911 (2/2) NJM2068 MD
IC912 (1/2) NJM2068 MD
IC912 (2/2) NJM2068 MD
IC908 (1/4) 74HC00
IC908 (2/4) 74HC00
IC908 (3/4) 74HC00
IC908 (4/4) 74HC00
INVERTER
IC909 (1/2) 74HC74
IC909 (2/2) 74HC74
IC910 (1/2) 74HC74
IC910 (2/2) 74HC74
1/2 DIVIDER
NO USE
IC901 CXP81312-333Q µ-COM DSP
X902 4.19MHz
Q902 DTC144W
RESET
Q903 A952
POWER ON/OFF
IC915 78M05
IC913 78L05
IC914 79L05
IC913~915 CONSTANT VOLTAGE
+10.6V
-9.9V
5.0V
4.5V
CON901
MUTE NC GEQ DSP DSP D-GND +VM R-IN -VCC L-IN A-GND R-OUT +VCC L-OUT P-ON
FROM A MAIN C.B CON325
DIGITAL SIGNAL FLOW
ANALOG SIGNAL FLOW

# IC BLOCK DIAGRAM—2 (MX—Z7000M)

## IC, TC9154AP

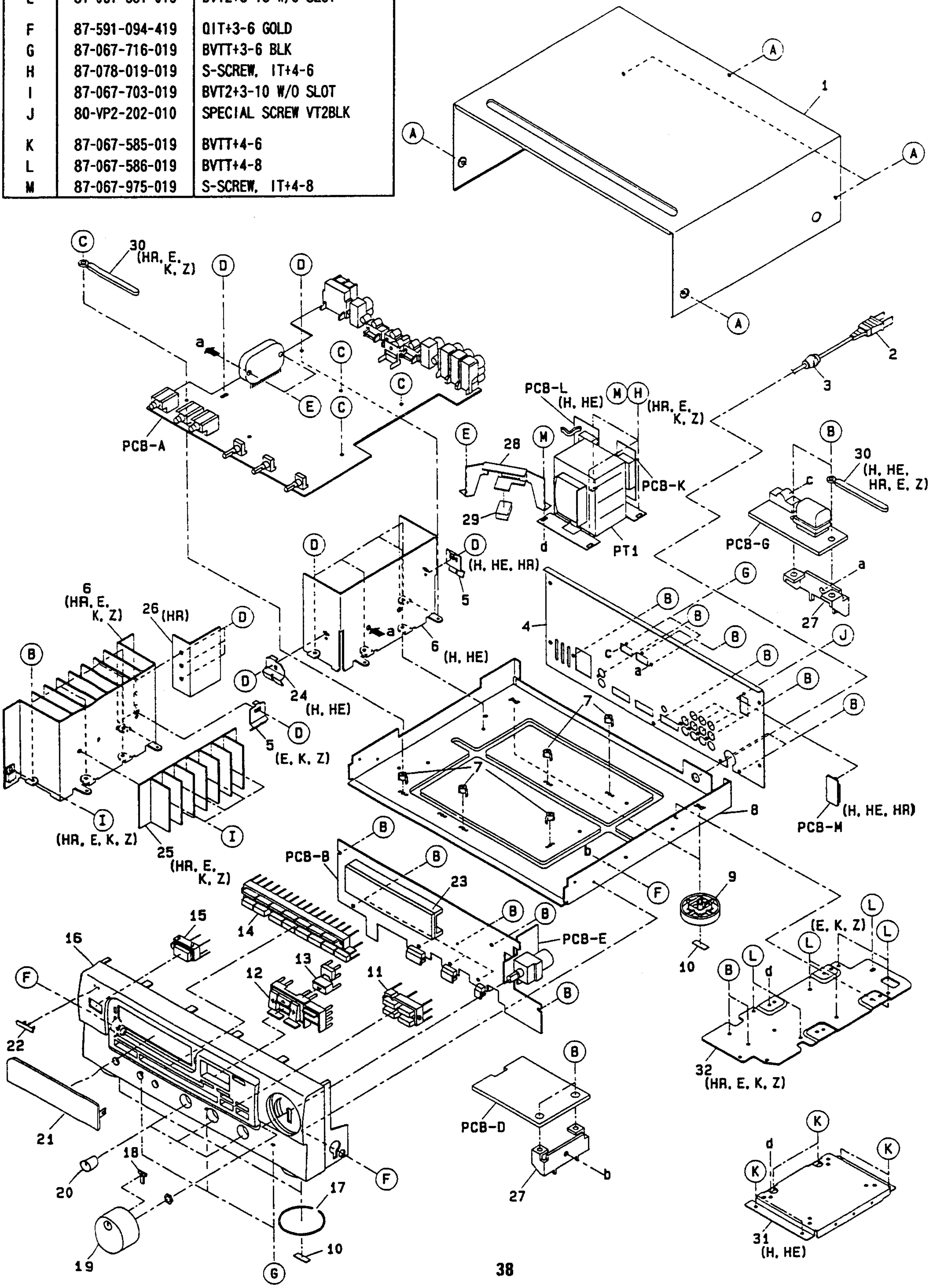

VDD
GND
VSS
16
8
1
DATA 10
CK 9
ST 7
LEVEL SHIFTER
LEVEL SHIFTER
LEVEL SHIFTER
18 BIT SFIFT REGISTER
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
L-OUT1 2
L-IN1 3
A-GND 4
L-IN2 5
L-OUT2 6
15 R-OUT1
14 R-IN1
13 A-GND
12 R-IN2
11 R-OUT2
CK
7 BIT LATCH CIRCUIT
CK
CK
6 BIT LATCH CIRCUIT
A-SW

## IC, M65831FP


24 23
22
21
20 19
18
17
16
15 14
13 12
VCC
LPF1
COMP
4.7K
REF
CC1
CC2
MOD
DEM
OP1
4.7K
OP2
LPF2
A-GND
1/2VCC
AUTO RESET
DIGITAL DELAY
RAM
OSCILLATOR
DELAY TIME CONTROL
VDD
D1
D2
D3
D4
TEST
MODE
SLEEP
D-GND
1
2
3
4 5 6
7
8
9
10
11

# EXPLODED VIEW (MX—Z7000M)

| REF. | PART NO. | DESCRIPTION |
|---|---|---|
| A | 87-067-641-019 | UTT2+3-8 W/O SLOT BLK |
| B | 87-067-660-019 | BVT2+3-8 W/O SLOT BLK |
| C | 87-067-758-019 | BVT2+3-12 W/O SLOT |
| D | 87-067-584-019 | BVT2+3-6 W/O SLOT |
| E | 87-067-581-019 | BVT2+3-15 W/O SLOT |
| F | 87-591-094-419 | QIT+3-6 GOLD |
| G | 87-067-716-019 | BVTT+3-6 BLK |
| H | 87-078-019-019 | S-SCREW, IT+4-6 |
| I | 87-067-703-019 | BVT2+3-10 W/O SLOT |
| J | 80-VP2-202-010 | SPECIAL SCREW VT2BLK |
| K | 87-067-585-019 | BVTT+4-6 |
| L | 87-067-586-019 | BVTT+4-8 |
| M | 87-067-975-019 | S-SCREW, IT+4-8 |



A
1
2
3
30 (HR, E, K, Z)
30 (H, HE, HR, E, Z)
PCB-A
PCB-L (H, HE)
(HR, E, K, Z)
PCB-K
PCB-G
PT1
28
29
4
5 (H, HE, HR)
5 (E, K, Z)
6 (HR, E, K, Z)
6 (H, HE)
26 (HR)
24 (H, HE)
25 (HR, E, K, Z)
27
7
8
9
10
PCB-M (H, HE, HR)
PCB-B
PCB-E
PCB-D
23
14
15
16
11
12
13
17
18
19
20
21
22
32 (HR, E, K, Z)
31 (H, HE)
(E, K, Z)
a
b
c
d
B
C
D
E
F
G
H
I
J
K
L
M

## MECHANICAL PARTS LIST (MX－Z7000M)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| PART NO. CHANGED TO | REF. NO. | PART NO. | DESCRIPTION | COMMON MODEL | Q.TY |
|---|---|---|---|---|---|
| | 1 | ★82-VP2-011-019 | CAB, STEEL (H, HE) | | 1 |
| | 1 | ★82-VP2-023-019 | CAB, STEEL HR (HR) | | 1 |
| | 1 | ★82-VP1-016-018 | CAB, STEEL G (E, K, Z) | ※ | 1 |
| | 2 | ★87-034-749-019 | AC CORD, H W/PLUG (H) | | 1 |
| | 2 | ★87-050-034-019 | AC CORD ASSY, E (HE, HR) | | 1 |
| | 2 | ★87-050-016-018 | AC CORD ASSY, E (E, Z) | | 1 |
| | 2 | ★87-050-029-018 | AC CORD ASSY, K 3P (K) | | 1 |
| | 3 | ★87-085-184-010 | BUSHING, AC CORD D (H) | | 1 |
| | 3 | ★87-085-185-010 | BUSHING, AC CORD E (EXCEPT H) | | 1 |
| | 4 | ★82-VP1-006-119 | PANEL, REAR HJBN (H) | ※ | 1 |
| | 4 | ★82-VP1-015-119 | PANEL, REAR HEJBN (HE) | ※ | 1 |
| | 4 | ★82-VP1-021-019 | PANEL, REAR HRJBN (HR) | ※ | 1 |
| | 4 | ★82-VP1-008-019 | PANEL, REAR EBNE (E) | ※ | 1 |
| | 4 | ★82-VP1-007-019 | PANEL, REAR KBNE (K) | ※ | 1 |
| | 4 | ★82-VP1-009-019 | PANEL, REAR ZBNE (Z) | ※ | 1 |
| | 5 | --- | HLDR, IC | | 1 |
| | 6 | --- | HT－SINK, ASSY | | 1 |
| | 7 | --- | HLDR, PCB 6.0 | | 5 |
| | 8 | --- | CHAS, MAIN | | 1 |
| | 9 | ★81-VX1-012-019 | FOOT, REAR | | 2 |
| | 10 | ★82-VW2-211-019 | FELT, 20－7.5－2 | | 4 |
| | 11 | ★82-VP2-006-019 | KEY, BBE | | 1 |
| | 12 | ★82-VP1-013-019 | KEY, CRSR | ※ | 1 |
| | 13 | ★82-VP2-005-019 | KEY, CRSR DOWN | | 1 |
| | 14 | ★82-VP1-012-019 | KEY, FUN | ※ | 1 |
| | 15 | ★82-VP2-002-019 | KEY, POWER | | 1 |
| | 16 | ★82-VP1-011-019 | CAB, FR LH (H) | ※ | 1 |
| | 16 | ★82-VP1-001-019 | CAB, FR H (HE, HR) | ※ | 1 |
| | 16 | ★82-VP1-017-019 | CAB, FR EX (E, K, Z) | ※ | 1 |
| | 17 | ★81-VW1-015-010 | RING, FOOT | | 2 |
| | 18 | ★82-MA2-026-019 | IND, VOL | | 1 |
| | 19 | ★82-MA2-023-019 | KNOB, VOL | | 1 |
| | 20 | ★81-VP1-005-019 | KNOB, BBE | | 3 |
| | 21 | ★82-VP2-007-019 | WINDOW, AMP | | 1 |
| | 22 | ★81-DS1-011-019 | BADGE, AIWA N | | 1 |
| | 23 | ★82-MA2-203-019 | GUIDE, FL 2 | | 1 |
| | 24 | --- | HLDR, IC 2 (H, HE) | | 1 |
| | 25 | --- | HT－SINK SUB (HR, E, K, Z) | | 1 |
| | 26 | --- | HT－SINK, FIN L (HR) | | 1 |
| | 27 | --- | HLDR, PCB GEQ | | 2 |
| | 28 | --- | HLDR, PCB DSP | | 1 |
| | 29 | ★84-711-306-019 | G－CUSHION 10－5－5 | | 1 |
| | 30 | --- | WIRE BINDER | | 1 (H, HE, K)<br>2 (HR, E, Z) |
| | 31 | --- | HLDR, PT (H, HE) | | 1 |
| | 32 | --- | PLATE, PT G (HR, E, K, Z) | | 1 |

MODEL NO.

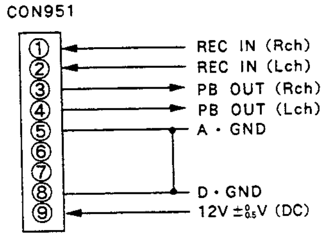
# FX－WZ7000

## CAUTIONS WHEN SERVICING (FX－WZ7000)

Model FX－WZ7000 does not have a power supply circuit. Power is supplied to it through a 9－pin flat cable and the signal inputs/outputs are also perfomed through this cable.
When servicing the FX－WZ7000 connect it to the MX－Z7000M so power is supplied to the FX－WZ7000.
If the MX－Z7000M is not available, follow the procedure below.

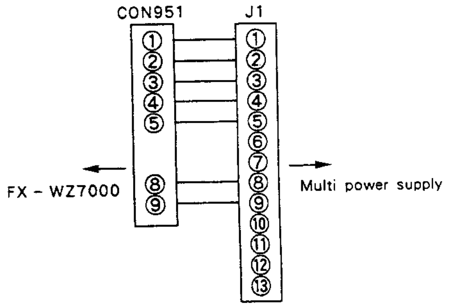
[When servicing the unassembled FX－WZ7000]

①Supply the following voltages to each terminal from an external power supply.


CON951
①
②
③
④
⑤
⑥
⑦
⑧
⑨
REC IN (Rch)
REC IN (Lch)
PB OUT (Rch)
PB OUT (Lch)
A・GND
D・GND
12V $\pm^{0}_{0.5}$V (DC)

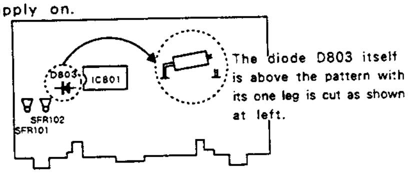
②Connection diagram when using multi power supply. (LPS－9088)

・Connect a multi－conversion harness for the D5 type to J1.


CON951
J1
FX－WZ7000
Multi power supply
①
②
③
④
⑤
⑧
⑨
⑥
⑦
⑩
⑪
⑫
⑬

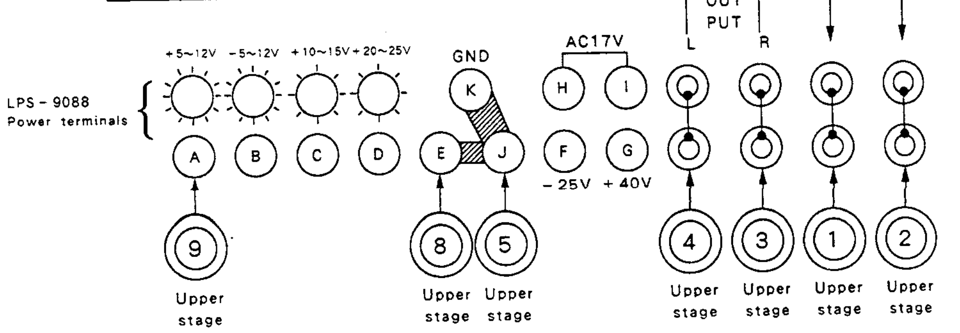
Connect a multi－conversion harness

・After connecting the multi－conversion harness, connect the leg of the diode D803 on the pattern of the main C.B and then turn the multi－power supply on.


D803
IC801
SFR102
SFR101

The diode D803 itself is above the pattern with its one leg is cut as shown at left.

▨ : Short bar
←→ : Jumper cable
●→ : Ground cable of pin plug
○ : Power output terminal
◎ : Relay terminal
◎ : Pin jack


External equipment (amplifier, etc.)
External equipment (sound source)
OUT PUT
L
R
LPS－9088 Power terminals
+5~12V
－5~12V
+10~15V
+20~25V
GND
AC17V
A
B
C
D
E
J
K
H
I
F
G
－25V
+40V
9
8
5
4
3
1
2
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage

# ELECTRICAL MAIN PARTS LIST (FX – WZ7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

IC

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| | 87-001-334-010 | | IC, LB9051A |
| | 87-001-908-019 | | IC, CXA1332S |
| | 87-002-861-010 | | IC, CXP2201 AS |
| | 82-VW2-631-010 | | IC, LC66406-4B19 |
| | 87-017-022-089 | | IC, NJM2068M-D(T1) |
| | 87-001-607-089 | | IC, NJM4558M |
| | 87-017-023-089 | | IC, NJU4052BM |
| | 87-001-224-089 | | IC, NJU4066BM |
| | 87-020-730-089 | | IC, TC4069UBF |

TRANSISTOR

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| | 89-503-685-089 | | C-FET, 2SK368GR |
| | 89-113-625-089 | | C-TR, 2SA1362GR(TAPG) |
| | 89-327-125-089 | | C-TR, 2SC2712GR |
| | 89-333-266-089 | | C-TR, 2SC3326B |
| | 87-026-580-089 | | C-TR, DTA123JK |
| | 87-026-223-089 | | C-TR, DTC143TK |
| | 87-026-210-089 | | C-TR, DTC144EK T147 |
| | 87-026-227-089 | | C-TR, DTA114EK |
| | 87-026-463-080 | | TR, 2SA933S (RS) |
| | 89-112-965-089 | | TR, 2SA1296GR |
| | 89-109-521-089 | | TR, 2SA952K |
| | 89-318-155-089 | | TR, 2SC1815GR |
| | 89-320-011-089 | | TR, 2SC2001K |
| | 89-413-023-089 | | TR, 2SD1302S |

DIODE

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| | 87-017-024-089 | | C-DIODE, DA204K |
| | 87-020-331-089 | | C-DIODE, DAN202K |
| | 87-020-330-089 | | C-DIODE, DAP202K |
| | 87-020-584-089 | | C-ZENER, 02CZ5. 6Y |
| | 87-020-123-089 | | DIODE, DS446-AT(TA) |
| | 87-001-559-059 | | DIODE, 1SS131, RA |
| | 87-002-564-089 | | DIODE, 1SS133 RA |
| | 87-020-109-019 | | LED, SLF-201C(YJ) |
| | 87-027-329-089 | | ZENER, HZ22-L3 |
| | 87-017-069-059 | | ZENER, HZS3A1(RA) |
| | 87-017-091-089 | | ZENER, HZS5C1 |
| | 87-001-290-059 | | ZENER, HZS6B1L RA |
| | 87-001-731-059 | | ZENER, HZS7C2L RA |

MAIN C. B

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| C101 | 87-012-158-089 | | C-CAP, S 390P-50 CH |
| C102 | 87-012-158-089 | | C-CAP, S 390P-50 CH |
| C103 | 87-010-318-089 | | C-CAP, S 47P-50 CH |
| C104 | 87-010-318-089 | | C-CAP, S 47P-50 CH |
| C105 | 87-010-426-089 | | C-CAP, S 0. 012-25 B |
| C106 | 87-010-426-089 | | C-CAP, S 0. 012-25 B |
| C109 | 87-012-154-089 | | C-CAP, S 150P-50 CH |
| C110 | 87-012-154-089 | | C-CAP, S 150P-50 CH |
| C111 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C112 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C113 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C114 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C115 | 87-010-101-089 | | CAP, E 220-16 SME |
| C116 | 87-010-197-089 | | C-CAP, S 0. 01-25 B |
| C117 | 87-010-197-089 | | C-CAP, S 0. 01-25 B |
| C201 | 87-012-157-089 | | C-CAP, S 330P-50 CH |
| C202 | 87-012-157-089 | | C-CAP, S 330P-50 CH |
| C203 | 87-010-318-089 | | C-CAP, S 47P-50 CH |
| C204 | 87-010-318-089 | | C-CAP, S 47P-50 CH |
| C205 | 87-010-426-089 | | C-CAP, S 0. 012-25 B |
| C206 | 87-010-426-089 | | C-CAP, S 0. 012-25 B |
| C207 | 87-012-156-089 | | C-CAP, S 220P CH |
| C208 | 87-012-156-089 | | C-CAP, S 220P CH |
| C211 | 87-010-404-089 | | CAP, E 4. 7-50 SME |

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| C212 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C213 | 87-010-101-089 | | CAP, E 220-16 SME |
| C214 | 87-010-197-089 | | C-CAP, S 0. 01-25 B |
| C215 | 87-010-197-089 | | C-CAP, S 0. 01-25 B |
| C251 | 87-010-186-089 | | C-CAP, S 4700P-50 B |
| C252 | 87-010-149-089 | | C-CAP, S 5P-50 CH |
| C253 | 87-010-182-089 | | C-CAP, S 2200P-50 B |
| C254 | 87-010-596-089 | | C-CAP, S 0. 047-16 RK |
| C255 | 87-012-154-089 | | C-CAP, S 150P-50 CH |
| C256 | 87-010-374-089 | | CAP, E 47-10 |
| C257 | 87-010-401-089 | | CAP, E 1-50 SME |
| C258 | 87-010-149-089 | | C-CAP, S 5P-50 CH |
| C259 | 87-010-178-089 | | C-CAP, S 1000P-50 B |
| C301 | 87-010-321-089 | | C-CAP, S 82P-50 CH |
| C302 | 87-010-321-089 | | C-CAP, S 82P-50 CH |
| C303 | 87-010-183-089 | | C-CAP, S 2700P-50 B |
| C304 | 87-010-183-089 | | C-CAP, S 2700P-50 B |
| C305 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C306 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C323 | 87-012-157-089 | | C-CAP, S 330P-50 CH |
| C324 | 87-012-157-089 | | C-CAP, S 330P-50 CH |
| C401 | 87-012-156-089 | | C-CAP, S 220P CH |
| C402 | 87-012-156-089 | | C-CAP, S 220P CH |
| C403 | 87-014-071-089 | | CAP, PP 3900P-100 J |
| C405 | 87-010-221-089 | | CAP, E 470-10 |
| C409 | 87-010-402-089 | | CAP, E 2. 2-50 SME |
| C451 | 87-010-178-089 | | C-CAP, S 1000P-50 B |
| C453 | 87-010-322-089 | | C-CAP, S 100P-50 CH |
| C454 | 87-010-322-089 | | C-CAP, S 100P-50 CH |
| C501 | 87-010-175-089 | | C-CAP, S 560P-50 SL |
| C502 | 87-010-175-089 | | C-CAP, S 560P-50 SL |
| C503 | 87-010-182-089 | | C-CAP, S 2200P-50 B |
| C504 | 87-010-182-089 | | C-CAP, S 2200P-50 B |
| C505 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C506 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C507 | 87-010-182-089 | | C-CAP, S 2200P-50 B |
| C508 | 87-010-182-089 | | C-CAP, S 2200P-50 B |
| C509 | 87-010-182-089 | | C-CAP, S 2200P-50 B |
| C510 | 87-010-182-089 | | C-CAP, S 2200P-50 B |
| C511 | 87-010-825-089 | | CAP, E 0. 56/50V, SME |
| C512 | 87-010-825-089 | | CAP, E 0. 56/50V, SME |
| C513 | 87-010-546-089 | | CAP, E 0. 33-50 SME |
| C514 | 87-010-546-089 | | CAP, E 0. 33-50 SME |
| C515 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C516 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C517 | 87-010-371-089 | | CAP, E 470-6. 3 |
| C518 | 87-010-101-089 | | CAP, E 220-16 SME |
| C519 | 87-012-360-089 | | C-CAP, S 1-10FZ |
| C520 | 87-012-360-089 | | C-CAP, S 1-10FZ |
| C521 | 87-010-179-089 | | C-CAP, S 1200P-50 B |
| C522 | 87-010-179-089 | | C-CAP, S 1200P-50 B |
| C601 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C602 | 87-010-237-089 | | CAP, E 1000-16 |
| C603 | 87-010-101-089 | | CAP, E 220-16 SME |
| C604 | 87-010-237-089 | | CAP, E 1000-16 |
| C605 | 87-010-198-089 | | C-CAP, S 0. 022-25 B |
| C606 | 87-010-546-089 | | CAP, E 0. 33-50 SME |
| C607 | 87-010-371-089 | | CAP, E 470-6. 3 |
| C608 | 87-010-198-089 | | C-CAP, S 0. 022-25 B |
| C609 | 87-015-822-089 | | C-CAP, 0. 022 |
| C751 | 87-010-546-089 | | CAP, E 0. 33-50 SME |
| C752 | 87-010-546-089 | | CAP, E 0. 33-50 SME |
| C753 | 87-010-405-089 | | CAP, E 10-50 SME |
| C754 | 87-010-405-089 | | CAP, E 10-50 SME |
| C755 | 87-010-263-089 | | CAP, E 100-10 |
| C756 | 87-010-260-089 | | CAP, E 47-25 SME |
| C801 | 87-010-404-089 | | CAP, E 4. 7-50 SME |
| C951 | 87-012-140-089 | | C-CAP, S 470P-50 CH |
| C952 | 87-010-186-089 | | C-CAP, S 4700P-50 B |
| CF801 | 89-MX1-704-089 | | CERA LOCK(MU)3. 9MHZ |

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| CON801 | 82-VW2-624-019 | | F-CABLE 3P-2. 0 |
| CON951 | 82-VW2-623-019 | | CORD, FG 9P-1. 5 |
| L301 | 87-005-525-089 | | COIL, 22MH-J |
| L302 | 87-005-525-089 | | COIL, 22MH-J |
| L303 | 87-003-131-089 | | COIL, 10MH J |
| L304 | 87-003-131-089 | | COIL, 10MH J |
| L305 | 87-003-123-089 | | COIL, 2. 2MH J |
| L306 | 87-003-123-089 | | COIL, 2. 2MH J |
| L401 | 80-VW1-605-119 | | COIL, OSC BIAS 108K |
| L601 | 87-005-474-089 | | COIL, 12UH J FLR50 |
| L602 | 87-005-239-019 | | COIL, 100UH |
| R408 | 87-025-471-089 | | RES NF 4. 7-1/4WJ |
| SFR101 | 87-024-349-089 | | SFR, 1K DIA6 H |
| SFR102 | 87-024-349-089 | | SFR, 1K DIA6 H |
| SFR201 | 87-024-349-089 | | SFR, 1K DIA6 H |
| SFR202 | 87-024-349-089 | | SFR, 1K DIA6 H |
| SFR301 | 87-024-353-089 | | SFR, 10K DIA6 H |
| SFR302 | 87-024-353-089 | | SFR, 10K DIA6 H |
| SFR401 | 87-024-356-089 | | SFR, 47K DIA6 H |
| SFR402 | 87-024-356-089 | | SFR, 47K DIA6 H |

FRONT-1 C. B

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| S905 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S905 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S906 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S906 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S907 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S907 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S908 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S908 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |

FRONT-2 C. B

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| C901 | 87-010-263-089 | | CAP, E 100-10 |
| C904 | 87-018-214-089 | | CAP, TC U 0. 1-50 F |
| C908 | 87-016-251-049 | | CAP, E 220-16 SMG |
| C910 | 87-014-067-089 | | CAP, PP 2700P-100 J |
| C912 | 87-010-407-089 | | CAP, E 33-50 SME |
| C913 | 87-018-214-089 | | CAP, TC U 0. 1-50 F |
| C914 | 87-018-214-089 | | CAP, TC U 0. 1-50 F |
| CF901 | 89-MX1-704-089 | | CERA LOCK(MU)3. 9MHZ |
| FL901 | 82-VW1-621-010 | | FL BJ125GK |
| FR901 | 87-025-471-089 | | RES, NF 4. 7-1/4WJ |
| FR902 | 87-025-471-089 | | RES, NF 4. 7-1/4WJ |
| L901 | 87-003-051-089 | | COIL, 470UH |
| L902 | 87-003-102-089 | | COIL, 10UH |
| S901 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S901 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S902 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S902 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S903 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S903 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S904 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| S904 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S909 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S909 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S911 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S911 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S912 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S912 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S913 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S913 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S914 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S914 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S915 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S915 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S916 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S916 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| S917 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S917 | 87-036-259-089 | | SW, TACT SKHVBB(Y) |
| T901 | 82-VW1-623-019 | | COIL, FL |

DECK-1 C. B

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| M1 | 87-045-348-010 | | MOT, SHW 2L 70 |
| PIN701 | 87-009-236-010 | | CONN, 8P PH H |
| SFR1 | 87-024-170-080 | | SFR, 3. 3K DIA 6V |
| SFR2 | 87-024-171-080 | | SFR, 4. 7K DIA 6V |
| SOL1 | 82-ZM1-618-010 | | SOL ASSY, 27 |
| SW4 | 87-036-110-010 | | SW, PUSH SPPB 62 |
| SW5 | 87-036-110-010 | | SW, PUSH SPPB 62 |
| SW6 | 87-036-110-010 | | SW, PUSH SPPB 62 |

DECK-2 C. B

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| M2 | 87-045-348-010 | | MOT, SHW 2L 70 |
| PIN702 | 87-009-752-010 | | CONN, 11P PH H WHT |
| SFR1 | 87-024-170-080 | | SFR, 3. 3K DIA 6V |
| SFR2 | 87-024-171-080 | | SFR, 4. 7K DIA 6V |
| SOL2 | 82-ZM1-618-010 | | SOL ASSY, 27 |
| SW1 | 87-036-110-010 | | SW, PUSH SPPB 62 |
| SW2 | 87-036-110-010 | | SW, PUSH SPPB 62 |
| SW3 | 87-036-110-010 | | SW, PUSH SPPB 62 |
| SW4 | 87-036-110-010 | | SW, PUSH SPPB 62 |
| SW5 | 87-036-110-010 | | SW, PUSH SPPB 62 |
| SW6 | 87-036-110-010 | | SW, PUSH SPPB 62 |

RELAY-1 C. B

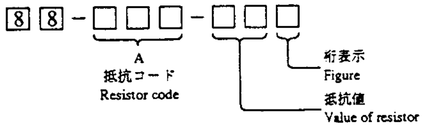
RELAY-2 C. B

MISCELLANEOUS

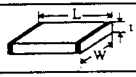
| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| PH | 87-046-355-010 | | HEAD, PH HADKH2529B (D1) |
| RPH | 87-046-356-010 | | HEAD, RPH HADKH5581B (D2) |

## ○チップ抵抗部品コード／CHIP RESISTOR PART CODE

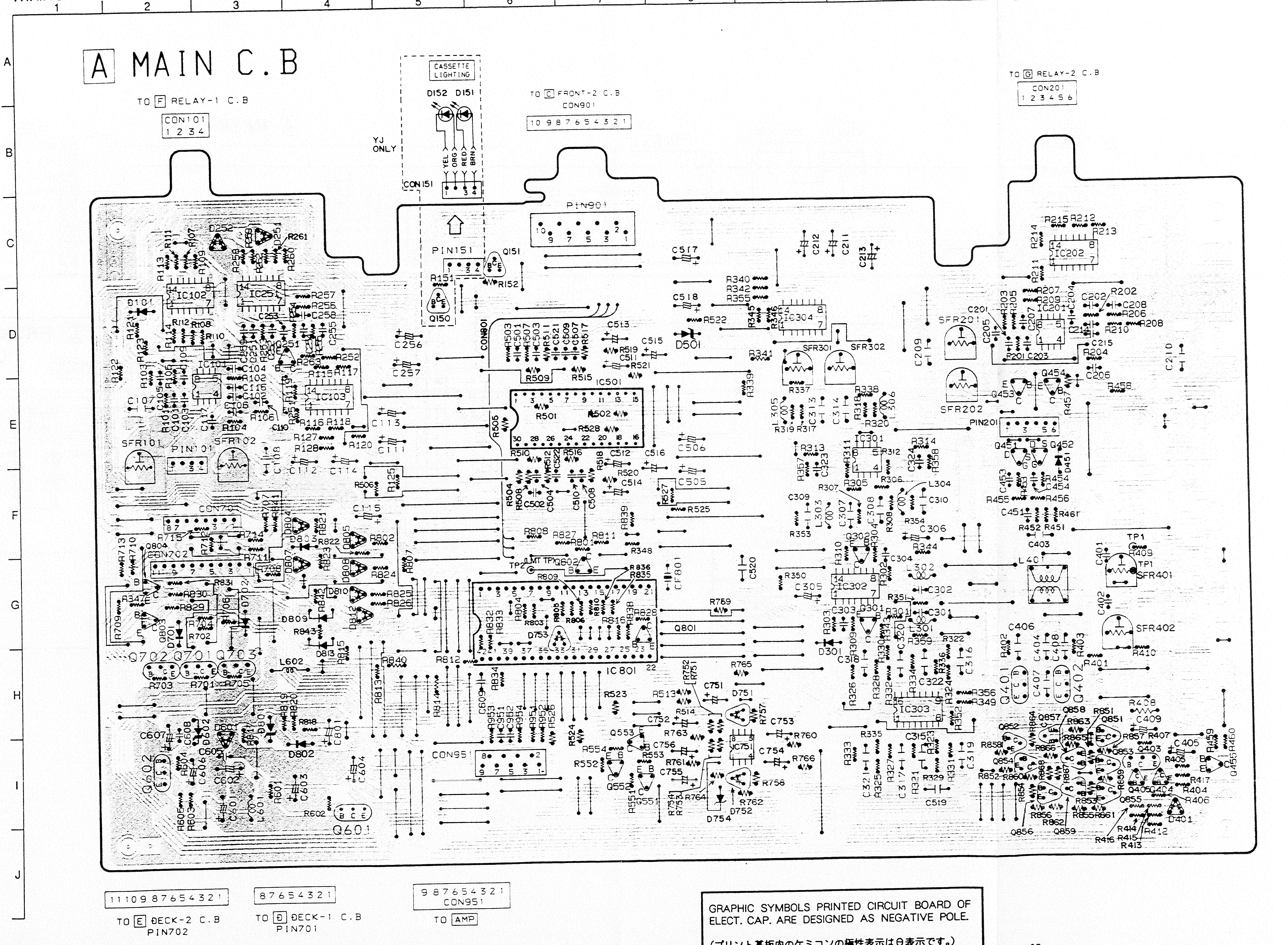
チップ抵抗部品コードの成り立ち
Chip resistor part coding



チップ抵抗
Chip resistor

| Wattage 容量 | Type 種類 | Tolerance 許容誤差 | Symbol 記号 | Dimensions／寸法 (mm) | | | | Resistor code : A 抵抗コード : A |
|---|---|---|---|---|---|---|---|---|
| | | | | Form/外形 | L | W | t | |
| 1/32W | 1608 | ±5% | CJ |  | 1.6 | 0.8 | 0.35 | 108 |
| 1/10W | 2125 | ±5% | CJ | | 2 | 1.25 | 1.45 | 118 |
| 1/8W | 3216 | ±5% | CJ | | 3.2 | 1.6 | 0.5 ~0.7 | 128 |

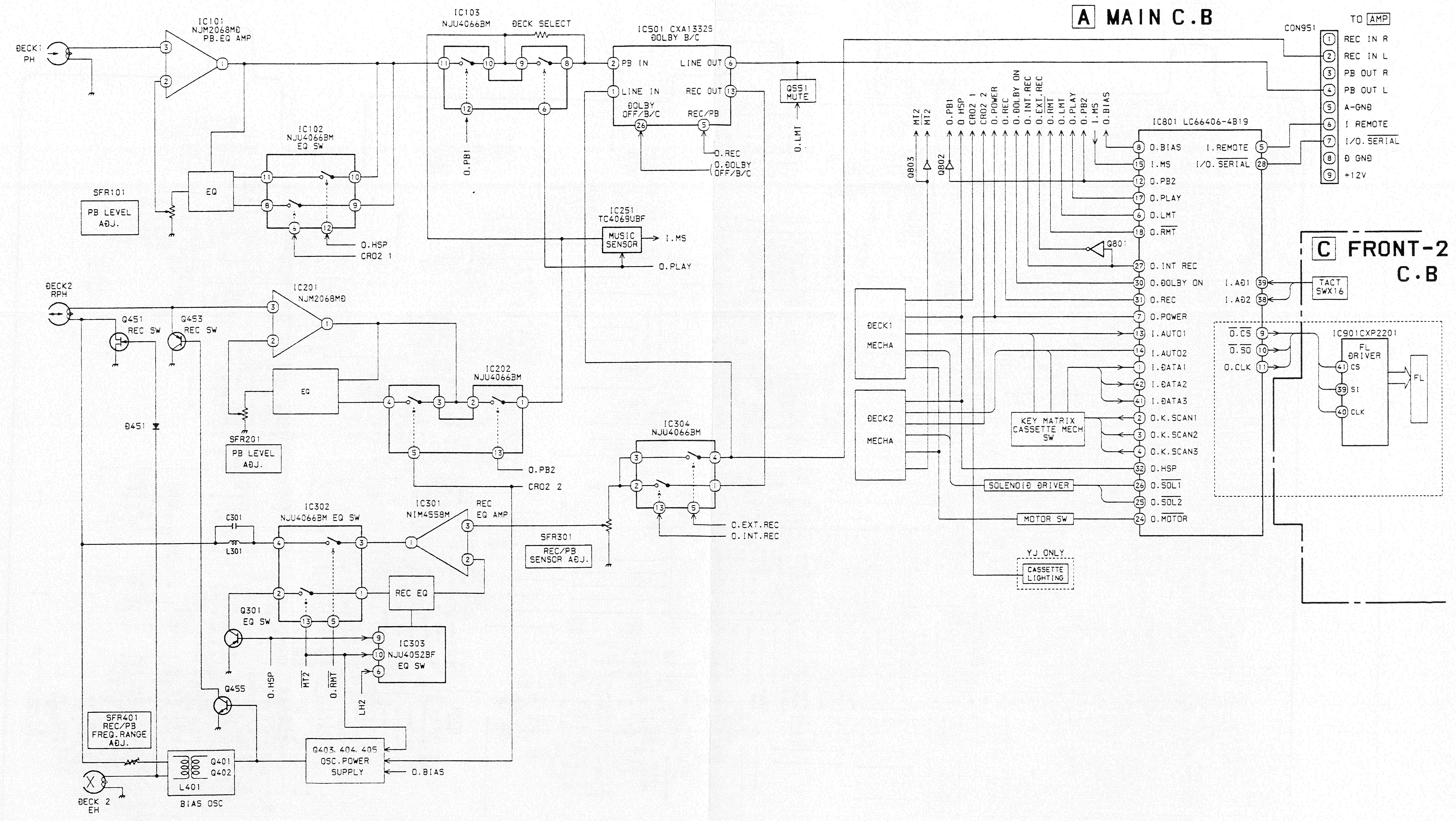
# WIRING – 1 (FX – WZ7000)


A MAIN C.B
TO F RELAY-1 C.B
CON101
1 2 3 4
CASSETTE LIGHTING
D152 D151
YJ ONLY
YEL ORG RED BRN
CON151
PIN151
TO C FRONT-2 C.B
CON901
10 9 8 7 6 5 4 3 2 1
PIN901
TO G RELAY-2 C.B
CON201
1 2 3 4 5 6
PIN201
CON801
CON702
PIN101
IC801
IC501
IC102
IC251
IC101
IC103
IC202
IC201
IC304
IC301
IC302
IC303
IC751
SFR101
SFR102
SFR201
SFR202
SFR301
SFR302
SFR401
SFR402
CON951
11 10 9 8 7 6 5 4 3 2 1
TO E DECK-2 C.B
PIN702
8 7 6 5 4 3 2 1
TO D DECK-1 C.B
PIN701
9 8 7 6 5 4 3 2 1
CON951
TO AMP

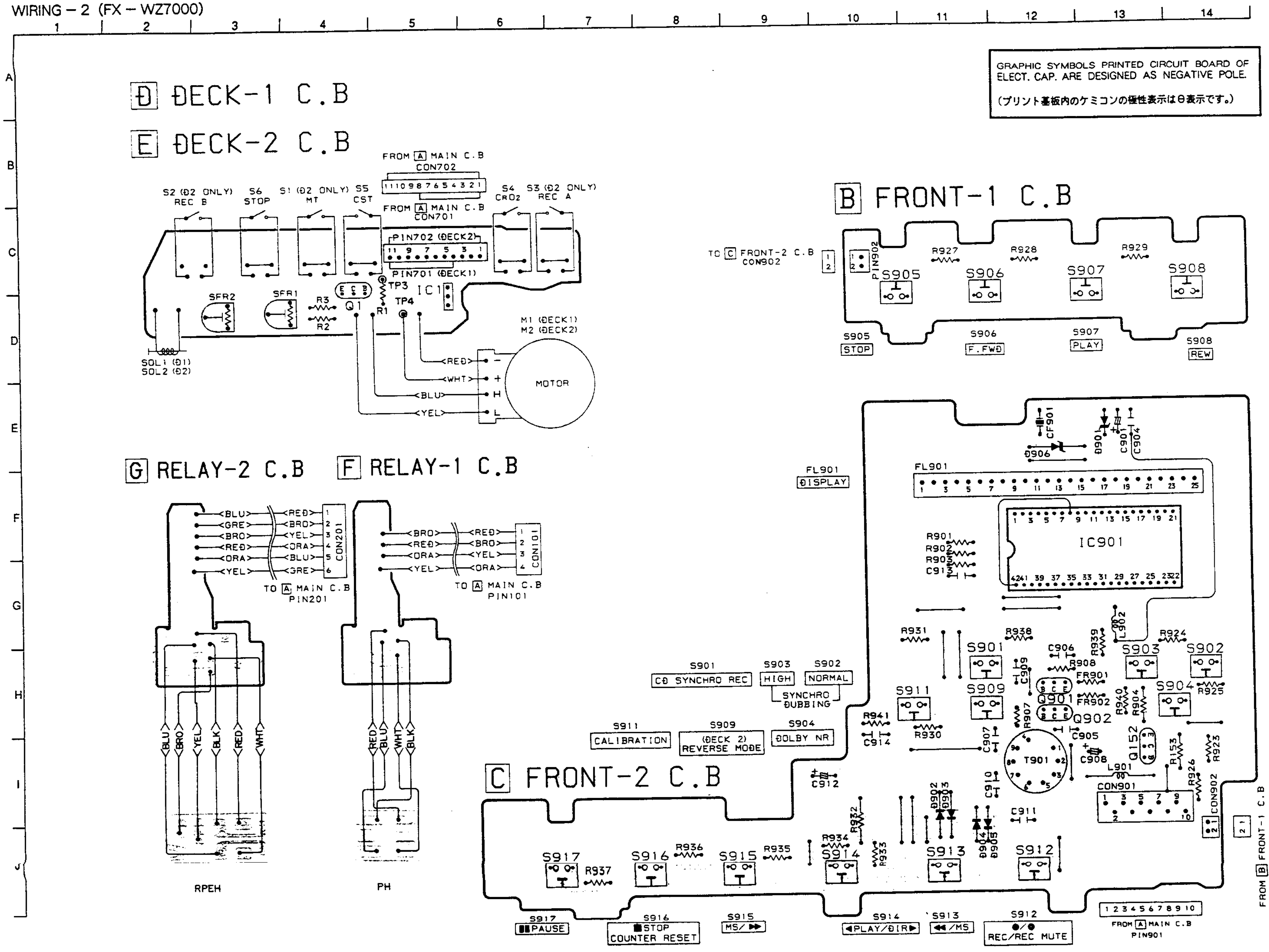
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

# BLOCK DIAGRAM (FX – WZ7000)


A MAIN C.B
C FRONT-2 C.B
DECK1 PH
IC101 NJM2068MD PB.EQ AMP
SFR101 PB LEVEL ADJ.
EQ
IC102 NJU4066BM EQ SW
O.HSP
CRO2 1
IC103 NJU4066BM
DECK SELECT
O.PB1
IC501 CXA1332S DOLBY B/C
PB IN
LINE OUT
LINE IN
REC OUT
DOLBY OFF/B/C
REC/PB
O.REC
O.DOLBY OFF/B/C
Q551 MUTE
O.LMT
IC251 TC4069UBF
MUSIC SENSOR
I.MS
O.PLAY
DECK2 RPH
Q451 REC SW
Q453 REC SW
IC201 NJM2068MD
D451
SFR201 PB LEVEL ADJ.
IC202 NJU4066BM
O.PB2
CRO2 2
IC304 NJU4066BM
O.EXT.REC
O.INT.REC
C301
L301
IC302 NJU4066BM EQ SW
IC301 NJM4558M
REC EQ AMP
SFR301 REC/PB SENSOR ADJ.
REC EQ
Q301 EQ SW
IC303 NJU4052BF EQ SW
O.HSP
MT2
O.RMT
LH2
Q455
SFR401 REC/PB FREQ.RANGE ADJ.
Q401
Q402
L401
BIAS OSC
Q403, 404, 405 OSC.POWER SUPPLY
O.BIAS
DECK 2 EH
Q803
Q802
MT2
MT2
O.PB1
O HSP
CRO2 1
CRO2 2
O.POWER
O.REC
O.DOLBY ON
O.INT.REC
O.EXT.REC
O.RMT
O.LMT
O.PLAY
O.PB2
I.MS
O.BIAS
IC801 LC66406-4B19
O.BIAS
I.MS
O.PB2
O.PLAY
O.LMT
O.RMT
Q801
O.INT REC
O.DOLBY ON
O.REC
O.POWER
I.AUTO1
I.AUTO2
I.DATA1
I.DATA2
I.DATA3
O.K.SCAN1
O.K.SCAN2
O.K.SCAN3
O.HSP
O.SOL1
O.SOL2
O.MOTOR
I.REMOTE
I/O.SERIAL
I.AD1
I.AD2
DECK1 MECHA
DECK2 MECHA
KEY MATRIX CASSETTE MECH SW
SOLENOID DRIVER
MOTOR SW
YJ ONLY
CASSETTE LIGHTING
CON951
TO AMP
REC IN R
REC IN L
PB OUT R
PB OUT L
A-GND
I REMOTE
I/O.SERIAL
D GND
+12V
TACT SWX16
O.CS
O.SO
O.CLK
IC901CXP2201 FL DRIVER
CS
SI
CLK
FL

## WIRING – 2 (FX – WZ7000)



Ð DECK-1 C.B
E DECK-2 C.B
FROM A MAIN C.B CON702
FROM A MAIN C.B CON701
S2 (D2 ONLY) REC B
S6 STOP
S1 (D2 ONLY) MT
S5 CST
S4 CRO2
S3 (D2 ONLY) REC A
PIN702 (DECK2)
PIN701 (DECK1)
SFR2
SFR1
R3
R2
Q1
R1
TP3
TP4
IC1
M1 (DECK1)
M2 (DECK2)
MOTOR
RED
WHT
BLU
YEL
SOL1 (D1)
SOL2 (D2)
G RELAY-2 C.B
F RELAY-1 C.B
CON201
CON101
TO A MAIN C.B PIN201
TO A MAIN C.B PIN101
BLU
GRE
BRO
RED
ORA
YEL
WHT
BLK
RPEH
PH
B FRONT-1 C.B
TO C FRONT-2 C.B CON902
PIN902
R927
R928
R929
S905
S906
S907
S908
S905 STOP
S906 F.FWD
S907 PLAY
S908 REW
C FRONT-2 C.B
FL901 DISPLAY
FL901
IC901
CF901
D906
D901
C901
C904
R901
R902
R903
C913
R931
R938
R939
L902
R924
S901
S903
S902
S904
S909
S911
C906
R908
FR901
FR902
Q901
Q902
R940
R904
R925
R941
C914
R930
C907
C905
C908
T901
Q152
R153
R923
R926
L901
CON901
CON902
C909
C910
C911
C912
D902
D903
D904
D905
R932
R933
R934
R935
R936
R937
S917
S916
S915
S914
S913
S912
S901 CD SYNCHRO REC
S903 HIGH
S902 NORMAL
SYNCHRO DUBBING
S911 CALIBRATION
S909 (DECK 2) REVERSE MODE
S904 DOLBY NR
S917 ▮▮PAUSE
S916 ■STOP COUNTER RESET
S915 MS/ ▶▶
S914 ◀PLAY/DIR▶
S913 ◀◀/MS
S912 ●/● REC/REC MUTE
FROM A MAIN C.B PIN901
FROM B FRONT-1 C.B PIN902

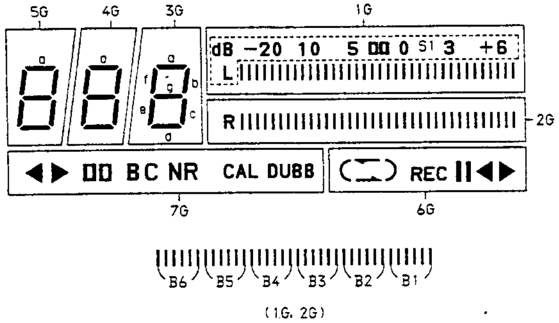
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

# FL / IC BLOCK DIAGRAM (FX—WZ7000)

## FL, BJ125GK

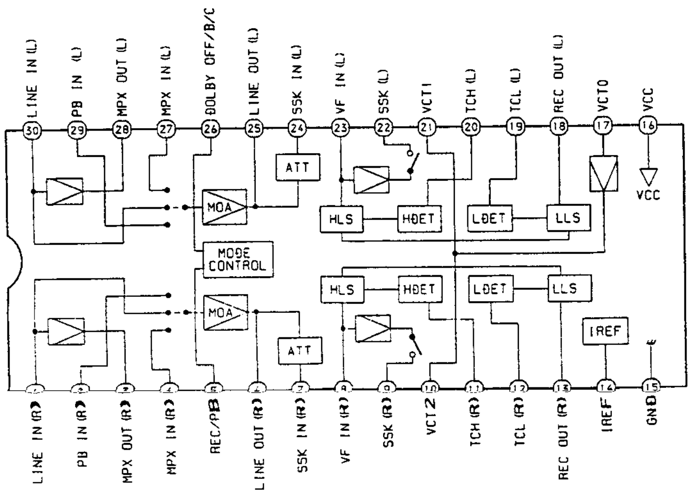
### GRID ASSIGNMENT


5G
4G
3G
1G
dB −20 10 5 DD 0 S1 3 +6
L
R
2G
a b c d e f g
◀▶ DD BC NR CAL DUBB
REC ▌▌◀▶
7G
6G
B6 B5 B4 B3 B2 B1
(1G, 2G)

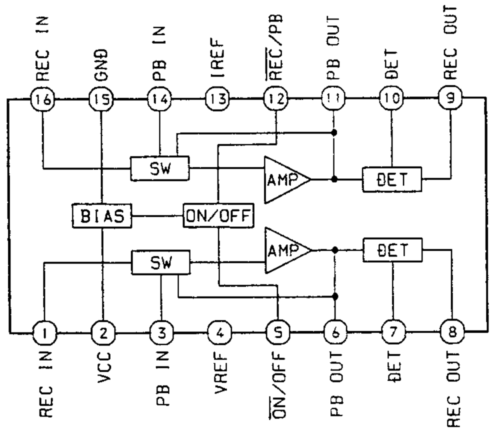
### ANODE CONNECTION

| | 7G | 6G | 5G | 4G | 3G | 2G | 1G |
|---|---|---|---|---|---|---|---|
| P1 | **DUBB** | ▶ | a | a | a | B1 | B1 |
| P2 | **CAL** | ◀ | b | b | b | B2 | B2 |
| P3 | **C** | ▌▌ | c | c | c | B3 | B3 |
| P4 | **B** | **REC** | d | d | d | B4 | B4 |
| P5 | **DD NR** | ) | e | e | e | B5 | B5 |
| P6 | ▶ | ⇄ | f | f | f | B6 | B6 |
| P7 | ◀ | ( | g | g | g | **R** | S1 |

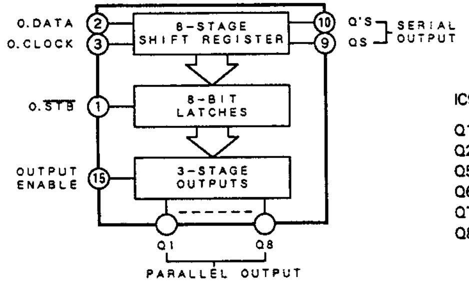
## IC, CXA1332S


LINE IN (L)
PB IN (L)
MPX OUT (L)
MPX IN (L)
DOLBY OFF/B/C
LINE OUT (L)
SSK IN (L)
VF IN (L)
SSK (L)
VCT1
TCH (L)
TCL (L)
REC OUT (L)
VCTO
VCC
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
ATT
MOA
HLS
HDET
LDET
LLS
VCC
MODE CONTROL
MOA
HLS
HDET
LDET
LLS
ATT
IREF
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
LINE IN (R)
PB IN (R)
MPX OUT (R)
MPX IN (R)
REC/PB
LINE OUT (R)
SSK IN (R)
VF IN (R)
SSK (R)
VCT2
TCH (R)
TCL (R)
REC OUT (R)
IREF
GND

## IC, HA12134A


REC IN
GND
PB IN
IREF
REC/PB
PB OUT
DET
REC OUT
16
15
14
13
12
11
10
9
SW
AMP
DET
BIAS
ON/OFF
SW
AMP
DET
1
2
3
4
5
6
7
8
REC IN
VCC
PB IN
VREF
ON/OFF
PB OUT
DET
REC OUT

## IC, BU4094B


O.DATA
O.CLOCK
2
3
8-STAGE SHIFT REGISTER
10
9
Q'S
QS
SERIAL OUTPUT
O.STB
1
8-BIT LATCHES
OUTPUT ENABLE
15
3-STAGE OUTPUTS
Q1
Q8
PARALLEL OUTPUT

IC901

Q1 : O.$\overline{\text{LED}}$ $\overline{\text{DOLBY B}}$
Q2~Q4 : NC
Q5 : O.$\overline{\text{LED}}$ ▷1
Q6 : O.$\overline{\text{LED}}$ ◁1
Q7 : O.$\overline{\text{LED}}$ ▷2
Q8 : O.$\overline{\text{LED}}$ ◁2

IC902

Q1 : O.$\overline{\text{LED}}$ REC
Q2 : O.$\overline{\text{LED}}$ CD
Q3 : O.$\overline{\text{LED}}$ DECK
Q4 : NC
Q5 : O.$\overline{\text{LED}}$ ⇄
Q6 : O.LED ↩
Q7 : O.LED ⟲
Q8 : O.$\overline{\text{LED}}$ $\overline{\text{PAUSE}}$

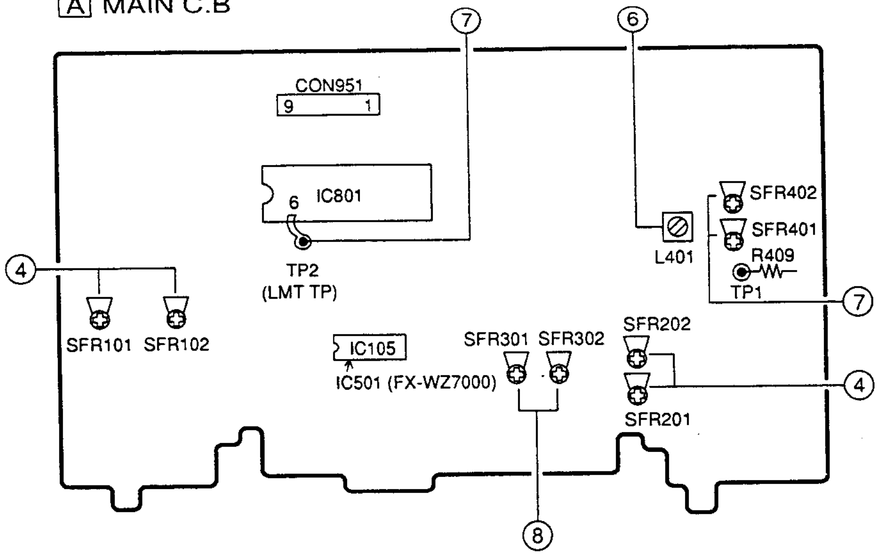
### TRUTH TABLE

| CLOCK | OUTPUT ENABLE | STROBE | DATA | PARALLEL OUTPUTS | | SERIAL OUTPUTS | |
|---|---|---|---|---|---|---|---|
| | | | | Q1 | Qn | QS | Q'S |
| ↑ | L | × | × | Z | Z | Q7 | NO CHG. |
| ↓ | L | × | × | Z | Z | NO CHG. | QS |
| ↑ | H | L | × | NO CHG. | NO CHG. | Q7 | NO CHG. |
| ↑ | H | H | L | L | Qn − 1 | Q7 | NO CHG. |
| ↑ | H | H | H | H | Qn − 1 | Q7 | NO CHG. |
| ↓ | H | × | × | NO CHG. | NO CHG. | NO CHG. | QS |

Z = HIGH IMPEDANCE   × = DON'T CARE

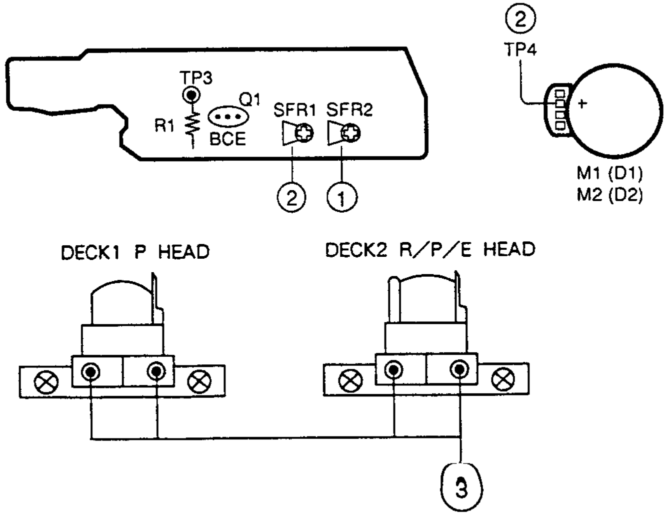
# ADJUSTMENT (FX－WZ7000)

## A MAIN C.B



(TOP VIEW)

## D DECK－1 C.B
## E DECK－2 C.B



1. Normal Speed Adjustment (DECK1, DECK2)
   Settings: · Test tape: TTA-100 (TTA-111S)
   · Test Point : PB-OUT (CON951)
   · Adjustment Location: SFR2 (DECK1)
   SFR2 (DECK2)
   Method: Play back the test tape, adjust for 3000 ±7Hz.

2. High Speed Adjustment (DECK1, DECK2)
   Settings: · Test tape: TTA-100 (TTA-111S)
   · Test Point : PB-OUT (CON951)
   · Adjustment Location: SFR1 (DECK1)
   SFR1 (DECK2)
   Method: After normal speed adjustment, play back the test tape, and make the high speed condition to be shorted between TP3 and TP4. Adjust for 6000 ±10Hz.

3. Head Azimuth Adjustment (DECK1, DECK2)
   Settings: · Test tape: TTA-310 (TTA-317E, SCC-1429)
   · Test Point : PB-OUT (CON951)
   · Adjustment Location: Head azimuth adjustment screw
   Method: Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum in each FWD PLAY and REV PLAY mode.

4. PB Level Adjustment (DECK1, DECK2)
   Settings: · Test tape: TTA-200 (TTA-161, TCC-130)
   · Test Point : PB-OUT (CON951)
   · Adjustment Location: SFR101 (DECK1, Lch)
   SFR102 (DECK1, Rch)
   SFR201 (DECK2, Lch)
   SFR202 (DECK2, Rch)
   Method: Play back the test tape and adjust so that the output becomes 280mV ± 15mV.

5. FWD/REV Playback Output Difference Check (DECK1, DECK2)
   Settings: · Test tape: TTA-200 (TTA-161, TCC-130)
   · Test Point : PB-OUT (CON951)
   Method: Play back the test tape and make sure that the output difference between the FWD and REV modes is 0dB ±0.7dB.

6. Bias Frequency Adjustment (DECK2)
   Settings: · Test tape: TTA-601 (TTA-600, TTA-119K)
   · Test Point : TP1
   · Adjustment Location: L401
   Method: Set DECK2 to the record mode and adjust L401 so that the frequency at TP1 is 107.5kHz ± 1.5kHz.

7. REC/PB Frequency Response Adjustment (DECK2)
   Settings: · Test tape: TTA-601 (TTA-600, TTA-119K)
   · Test Point : PB-OUT (CON951)
   · Adjustment Location: SFR401 (Lch)
   SFR402 (Rch)
   Method: Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT is 25mV.
   Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz signal is 0dB ± 0.3dB for 1kHz signal. After adjustment, remove the grounding lead wire.

8. REC/PB Sensitivity Adjustment (DECK2)
   Settings: · Test tape: TTA-601 (TTA-600, TTA-119K)
   · Test Point : PB-OUT (CON951)
   · Adjustment Location: SFR301 (Lch)
   SFR302 (Rch)
   Method: Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT is 25mV.
   Record and play back the 1kHz signal and adjust so that the output level of is 25mV ± 0.3dB. After adjustment, remove the grounding lead wire.

## PRACTICAL SERVICE FIGURE (FX－WZ7000)

| | |
|---|---|
| PB output level: | 280mV ± 34mV TTA-200<br>(TTA-161, TCC-130) |
| REC/PB output level: | 250mV ± 1dB (PB-OUT, 1kHz) |
| Distortion (REC/PB): | Less than 2.0% (NORM., $CrO_2$) |
| Erasing ratio: | More than 60dB |
| Crosstalk: | More than 60dB |
| Channel separation: | More than 35dB |
| Noise (REC/PB): | Less than 2.0mV<br>(DOLBY OFF NORM.)<br>Less than 1.0mV.<br>(DOLBY B ON $CrO_2$, MT)<br>Less than 0.8mV<br>(DOLBY C ON $CrO_2$, MT) |
| Noise (PB): | Less than 1.8mV<br>(DOLBY OFF NORM.)<br>Less than 0.9mV<br>(DOLBY B ON $CrO_2$)<br>Less than 0.8mV<br>(DOLBY C ON $CrO_2$) |
| Recording bias frequency: | 108kHz |
| Tape speed: | 3000Hz ± 1.5% |
| Wow & flutter (W.RMS): | Less than 0.18% (DECK1, 2) |
| Take-up torque: | 30～55g-cm (DECK1, 2) |
| F.F & REW torque: | 75～160g-cm (DECK1, 2) |
| Back tension: | 2～6g-cm (DECK1, 2) |
| Test tape: | NORMAL: TTA-601<br>*(TTA-600, TTA-119K)*<br>$CrO_2$: TTA-610 (TTA-119H) |

# IC DESCRIPTION (FX—WZ7000)

## IC, LC66406—4B19

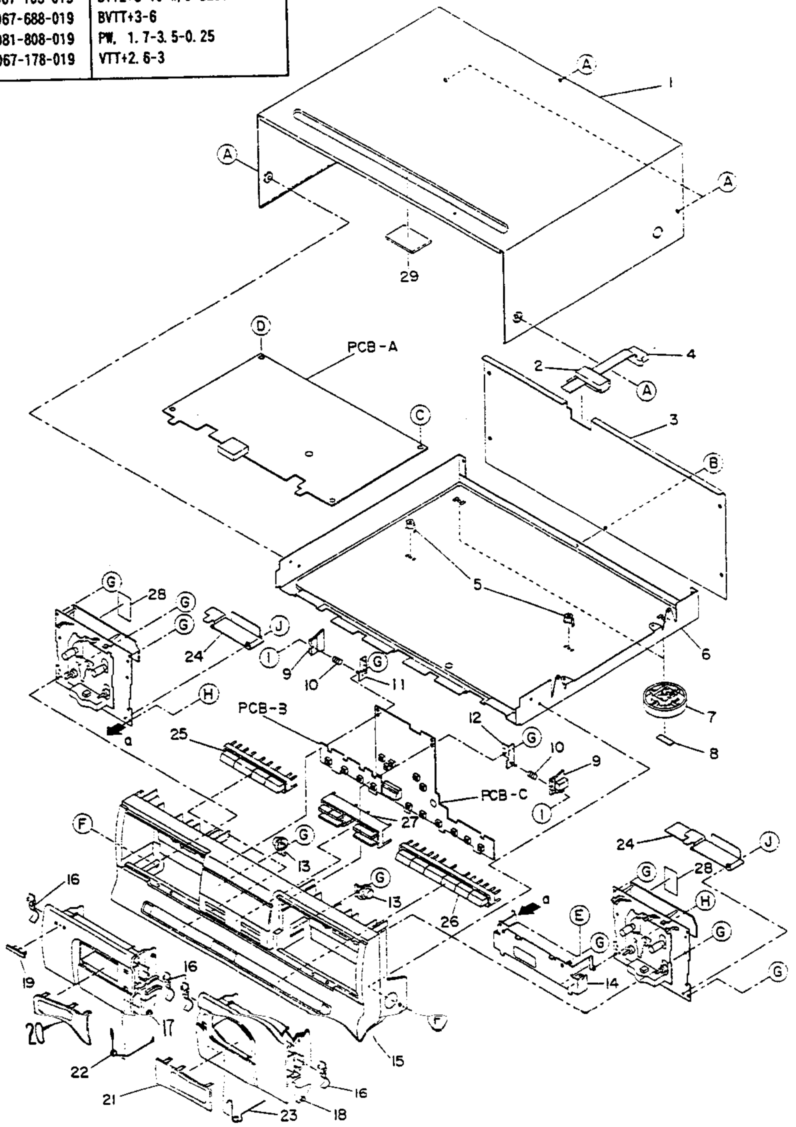
<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th colspan="4">Description</th></tr>
<tr><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td colspan="4">KEY DATA input</td></tr>
<tr><td>When K · SCAN1 is "H"</td><td>When K · SCAN2 is "H"</td><td>When K · SCAN3 is "H"</td><td>When K · SCAN4 is "H"</td></tr>
<tr><td>1</td><td>DATA1</td><td>I</td><td>DECK2 REC A SW input</td><td>DECK2 REC B SW input</td><td>DECK1 STOP SW input</td><td>SW CD HIGH SPEED (ON/OFF)</td></tr>
<tr><td>42</td><td>DATA2</td><td>I</td><td>DECK1 CST SW input</td><td>DECK2 CST SW input</td><td>DECK2 STOP SW input</td><td>SW CAL (Calibration ON/OFF)</td></tr>
<tr><td>41</td><td>DATA3</td><td>I</td><td>SW · POWER input</td><td>SW · DOLBYC (ON/OFF)</td><td>DECK1/2 SW input</td><td></td></tr>
<tr><td>2</td><td>O · K · SCAN1</td><td>O</td><td colspan="4" rowspan="3">SCAN output terminal of DATA 1～3.</td></tr>
<tr><td>3</td><td>O · K · SCAN2</td><td>O</td></tr>
<tr><td>4</td><td>O · K · SCAN3</td><td>O</td></tr>
<tr><td>5</td><td>I · REMOTE</td><td>I</td><td colspan="4">Serial data input terminal of remote controller.</td></tr>
<tr><td>6</td><td>O · LMT</td><td>O</td><td colspan="4">Output terminal for record/playback monitor output signal muting. "H" at muting.</td></tr>
<tr><td>7</td><td>O · POWER</td><td>O</td><td colspan="4">POWER ON/OFF control.</td></tr>
<tr><td>8</td><td>O · BIAS</td><td>O</td><td colspan="4">Bias oscillation output terminal for DECK 2. "H" at recording/dubbing. "L" at resetting.</td></tr>
<tr><td>9</td><td>O · $\overline{\text{STB}}$ ($\overline{\text{CS}}$)</td><td>O</td><td colspan="4">Strobe signal for the shift register (IC, BU4094).</td></tr>
<tr><td>10</td><td>O · DATA (SO)<br>/ K · SCAN4</td><td>O</td><td colspan="4">Serial data for the shift register PLL IC.</td></tr>
<tr><td>11</td><td>O · CLK</td><td>O</td><td colspan="4">Serial data clock signal for the shift register PLL IC.</td></tr>
<tr><td>12</td><td>O · PB2</td><td>O</td><td colspan="4">Playback output control terminal for DECKS 1 and 2. "H" at playback with DECK 2.</td></tr>
<tr><td>13</td><td>I · AUTO1</td><td>I</td><td colspan="4">Reel pulse input terminal for DECK 1.</td></tr>
<tr><td>14</td><td>I · AUTO2</td><td>I</td><td colspan="4">Reel pulse input terminal for DECK 2.</td></tr>
<tr><td>15</td><td>I · MS</td><td>I</td><td colspan="4">MS signal input terminal. Active "H".</td></tr>
<tr><td>16</td><td>NC</td><td>–</td><td colspan="4">Not used.</td></tr>
<tr><td>17</td><td>O · PLAY</td><td>O</td><td colspan="4">Cue/review mute output and MS sensitivity switching output terminal. "H" at playback.</td></tr>
<tr><td>18</td><td>O · $\overline{\text{RMT}}$</td><td>O</td><td colspan="4">Muting output terminal for recording input. "H" at record mute, record start, record clear and record pause.</td></tr>
<tr><td>19</td><td>TEST</td><td>–</td><td colspan="4">MPU test terminal. Connected with Vss.</td></tr>
<tr><td>20</td><td>VSS</td><td>–</td><td colspan="4">Common terminal for MPU I/O and power supply.</td></tr>
<tr><td>21</td><td>OSC1</td><td>–</td><td colspan="4" rowspan="2">3.9MHz Oscillation terminal</td></tr>
<tr><td>22</td><td>OSC2</td><td>–</td></tr>
<tr><td>23</td><td>$\overline{\text{RESET}}$</td><td>I</td><td colspan="4">Reset input terminal. Active "L".</td></tr>
<tr><td>24</td><td>O · $\overline{\text{MOTOR}}$</td><td>O</td><td colspan="4">Main motor control output terminal for decks 1 and 2. "L" with both decks at STOP.</td></tr>
<tr><td>25</td><td>O · $\overline{\text{SOL2}}$</td><td>O</td><td colspan="4">Solenoid drive output terminal for DECK 2. Active "L".</td></tr>
<tr><td>26</td><td>O · $\overline{\text{SOL1}}$</td><td>O</td><td colspan="4">Solenoid drive output terminal for DECK 1. Active "L".</td></tr>
<tr><td>27</td><td>O · INT REC</td><td>O</td><td colspan="4">Recording input source switching output terminal for deck 2.<br>"H": Deck 1 at STOP, FF or REW (with DECK NOR, DECK HI, CD NOR, DECK2 REC).<br>"L": In other modes: Deck 2 at REC, etc. (with CD HI, DECK2 PLAY/STOP, DECK1 PLAY).</td></tr>
<tr><td>28</td><td>I/O · $\overline{\text{SERIAL}}$</td><td>I/O</td><td colspan="4">Input/output terminal for serial data with CD, AMPLIFIER and TUNER.</td></tr>
<tr><td>29</td><td>NC</td><td>–</td><td colspan="4">Not used.</td></tr>
<tr><td>30</td><td>O · DOLBY ON</td><td>O</td><td colspan="4">DOLBY NR ON/OFF switching output terminal. "H" at DOLBY NR ON.</td></tr>
<tr><td>31</td><td>O · REC</td><td>O</td><td colspan="4">Dolby encoder/decoder switching output terminal. "H" at recording and "L" at dubbing.</td></tr>
<tr><td>32</td><td>O · HSP</td><td>O</td><td colspan="4">High-speed control output terminal for DECKS 1 and 2. "H" at HIGH SPEED DUBBING.</td></tr>
<tr><td>33</td><td rowspan="5">NC</td><td rowspan="5">–</td><td colspan="4" rowspan="5">Not used.</td></tr>
<tr><td>34</td></tr>
<tr><td>35</td></tr>
<tr><td>36</td></tr>
<tr><td>37</td></tr>
<tr><td>38</td><td>I · AD2</td><td>I</td><td colspan="4" rowspan="2">Key function control input terminal.</td></tr>
<tr><td>39</td><td>I · AD1</td><td>I</td></tr>
<tr><td>40</td><td>VDD</td><td>–</td><td colspan="4">Power terminal (+5V).</td></tr>
</table>

## IC, CXP2201AS

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | EXT | I | Ceramic connector for system clock oscillator use. When using an external clock, input to EXT, and leave XT open. |
| 2 | $\overline{\text{XT}}$ | O | |
| 3 | $V_{ss}$ | – | Connect to $V_{ss}$. |
| 4<br>~<br>7 | NC | – | Not used. |
| 8 | $V_{DD}$ | – | Connect to $V_{DD}$. |
| 9<br>~<br>15 | P1<br>~<br>P7 | O | Exclusive segment output (with built-in pull-down resistor). |
| 16<br>~<br>25 | NC | – | Not used. |
| 26<br>~<br>32 | G7<br>~<br>G1 | O | Exclusive timing output (with built-in pull-down resistor). |
| 33 | $V_{FDP}$ | – | Load power supply for FDP. |
| 34<br>~<br>38 | NC | – | Not used. |
| 39 | SI | I | Serial data input. |
| 40 | CLK | I | Shift clock input. |
| 41 | $\overline{\text{CS}}$ | I | Chip select input. |
| 42 | $\overline{\text{RST}}$ | I/O | Reset (with built-in pull-up resistor and power-on reset circuit). |

# EXPLODED VIEW – 1 (FX – WZ7000)

| REF. | PART NO. | DESCRIPTION |
|---|---|---|
| A | 87-743-094-419 | UT2+3-6 W/O SLOT BLK |
| B | 87-067-660-019 | BVT2+3-8 W/O SLOT BLK |
| C | 87-067-758-019 | BVT2+3-12 W/O SLOT |
| D | 87-067-776-019 | BVT2+3-12W CONVEX |
| E | 87-067-584-019 | BVT2+3-6 |
| F | 87-721-095-419 | QT2+3-8 GLD W/O SLOT |
| G | 87-067-703-019 | BVT2+3-10 W/O SLOT |
| H | 87-067-688-019 | BVTT+3-6 |
| I | 87-081-808-019 | PW. 1.7-3.5-0.25 |
| J | 87-067-178-019 | VTT+2.6-3 |



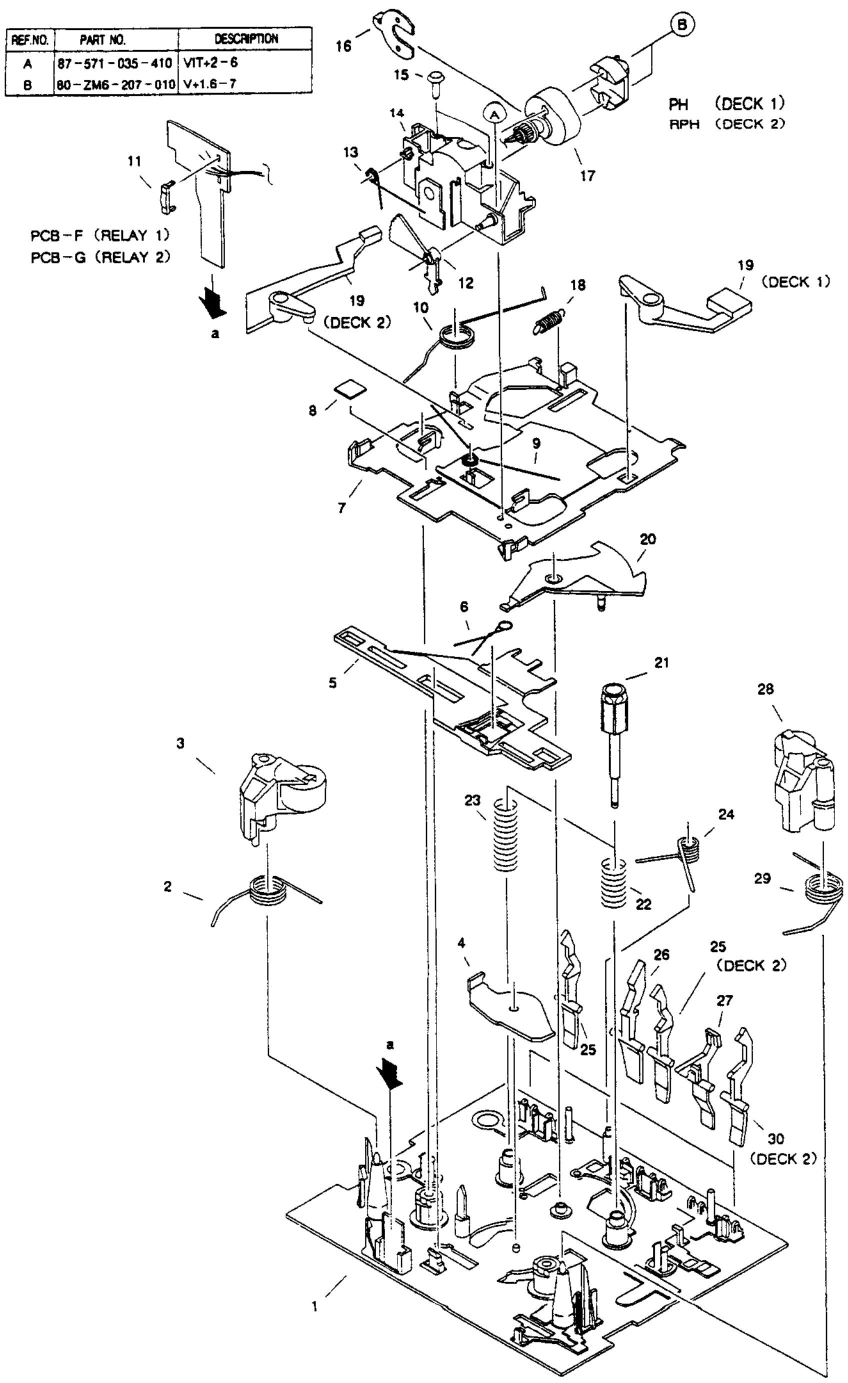
# MECHANICAL PARTS LIST (FX – WZ7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| PART NO. CHANGED TO | REF. NO. | PART NO. | DESCRIPTION | COMMON MODEL | Q.TY |
|---|---|---|---|---|---|
|  | 1-1 | ★81-VW1-028-018 | CAB, STEEL G (Y) | ※ | 1 |
|  | 1-1 | ★81-VW1-017-119 | CAB, STEEL (YJ) | ※ | 1 |
|  | 1-2 | ★89-VT5-202-010 | BUSHING, CORD |  | 1 |
|  | 1-3 | ★82-VW1-011-119 | PANEL, REAR YBNE (Y) | ※ | 1 |
|  | 1-3 | ★82-VW1-010-019 | PANEL, REAR YJBN (YJ) | ※ | 1 |
|  | 1-4 | ★82-VW2-623-019 | CORD, FG 9P 750 |  | 1 |
|  | 1-5 | --- | HLDR, PCB 6.0 |  | 2 |
|  | 1-6 | --- | CHASSIS, AMP |  | 1 |
|  | 1-7 | ★81-VX1-012-019 | FOOT, REAR |  | 2 |
|  | 1-8 | ★82-VW2-211-019 | FELT 20 – 7.5 – 2 |  | 2 |
|  | 1-9 | ★80-CD3-233-010 | PLATE, LOCK |  | 2 |
|  | 1-10 | ★81-715-234-019 | SPR – C, LOCK PLATE 5V |  | 2 |
|  | 1-11 | ★82-VW2-201-019 | HLDR ASSY, LOCK 1 |  | 1 |
|  | 1-12 | ★82-VW2-202-010 | HLDR ASSY, LOCK 2 |  | 1 |
|  | 1-13 | ★87-063-143-010 | OIL – DMPR 75 |  | 2 |
|  | 1-14 | ★82-VW2-207-019 | HLDR, BOX |  | 1 |
|  | 1-15 | ★09-047-743-010 | CAB, FR ASSY | ※ | 1 |
|  | 1-16 | ★81-MX4-223-019 | SPR – P, CASS |  | 4 |
|  | 1-17 | ★82-VW1-008-219 | BOX, CASS 1 EX | ※ | 1 |
|  | 1-18 | ★82-VW2-020-219 | BOX, CASS 2 EX |  | 1 |
|  | 1-19 | ★81-DS1-011-019 | BADGE, AIWA N |  | 1 |
|  | 1-20 | ★82-VW2-010-019 | WINDOW, CASS 1 |  | 1 |
|  | 1-21 | ★82-VW2-011-019 | WINDOW, CASS 2 |  | 1 |
|  | 1-22 | ★82-VW2-208-019 | SPR – T, EJECT 1 |  | 1 |
|  | 1-23 | ★82-VW2-209-019 | SPR – T, EJECT 2 |  | 1 |
|  | 1-24 | ★82-VW2-618-119 | PLATE, SHLD MECHA |  | 2 |
|  | 1-25 | ★82-VW1-005-019 | KEY, PLAY | ※ | 1 |
|  | 1-26 | ★82-VW1-006-019 | KEY, REC | ※ | 1 |
|  | 1-27 | ★82-VW1-003-019 | KEY, DUBB | ※ | 1 |
|  | 1-28 | ★80-MK2-206-010 | DMPR, 27 – 44.5 – 5.3 |  | 2 |
|  | 1-29 | ★82-226-274-010 | DMPR, 80 – 60 – 3 (Y) |  | 1 |

# EXPLODED VIEW – 2 (FX – WZ7000)

| REF.NO. | PART NO. | DESCRIPTION |
|---|---|---|
| A | 87 – 571 – 035 – 410 | VIT+2 – 6 |
| B | 80 – ZM6 – 207 – 010 | V+1.6 – 7 |

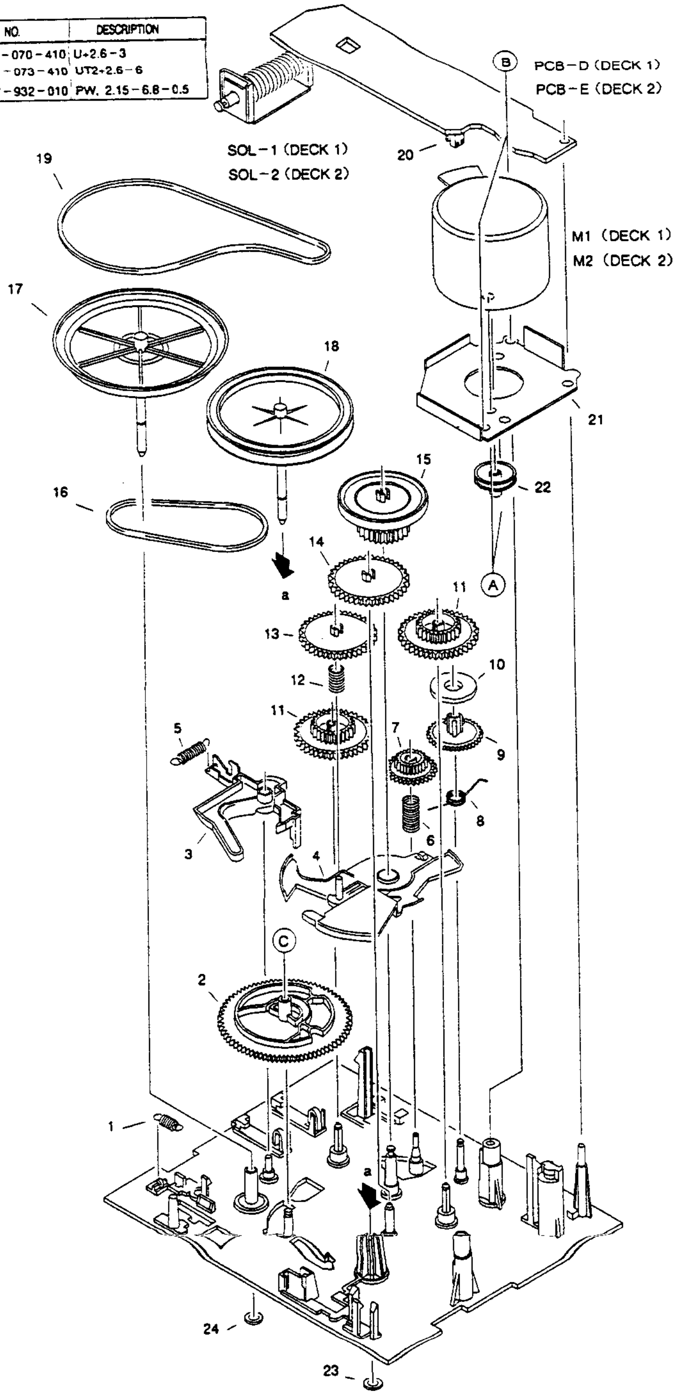


16
B
15
14
A
13
17
PH (DECK 1)
RPH (DECK 2)
11
PCB – F (RELAY 1)
PCB – G (RELAY 2)
12
18
19 (DECK 1)
19 (DECK 2)
10
a
8
9
7
20
6
5
21
28
3
23
24
22
29
2
4
26
25 (DECK 2)
27
25
a
30 (DECK 2)
1

| PART NO. CHANGED TO | REF. NO. | PART NO. | DESCRIPTION | | COMMON MODEL | Q.TY |
|---|---|---|---|---|---|---|
| | 2-1 | ★82-ZM1-201-010 | CHAS ASSY, MECH | | ※ | 1 |
| | 2-2 | ★82-ZM1-258-010 | SPR – T, PINCH L | | ※ | 1 |
| | 2-3 | ★82-ZM1-248-110 | LVR ASSY, PINCH L | | ※ | 1 |
| | 2-4 | ★82-ZM1-295-010 | PLATE ASSY, LINK | | ※ | 1 |
| | 2-5 | ★82-ZM1-266-010 | LVR, DIR | | ※ | 1 |
| | 2-6 | ★82-ZM1-214-010 | SPR – T, DIR | | ※ | 1 |
| | 2-7 | ★82-ZM1-206-010 | CHAS, HEAD | | ※ | 1 |
| | 2-8 | ★87-078-014-010 | SH, 5 – 5 – 0.05 | | | 1 |
| | 2-9 | ★82-ZM1-269-010 | SPR – T, BRG | | ※ | 1 |
| | 2-10 | ★82-ZM1-219-010 | SPR – T, LINK | | ※ | 1 |
| | 2-11 | - - - | HLDR WIRE 2 | | | 1 |
| | 2-12 | ★82-ZM1-210-010 | GEAR, H T | | ※ | 1 |
| | 2-13 | ★82-ZM1-213-010 | SPR – T, HEAD | | ※ | 1 |
| | 2-14 | ★82-ZM1-207-010 | GUIDE, TAPE | | ※ | 1 |
| | 2-15 | ★82-ZM1-283-010 | S – SCREW, AZIMUTH | | ※ | 2 |
| | 2-16 | ★82-ZM1-209-010 | PLATE, HEAD | | ※ | 1 |
| | 2-17 | ★82-ZM1-208-010 | HLDR, HEAD | | ※ | 1 |
| | 2-18 | ★82-ZM1-218-010 | SPR – E, HB | | ※ | 1 |
| | 2-19 | ★82-ZM1-264-010 | LVR, EJECT R | (DECK 1) | ※ | 1 |
| | 2-19 | ★82-ZM1-263-010 | LVR, EJECT L | (DECK 2) | ※ | 1 |
| | 2-20 | ★82-ZM1-222-010 | LVR, PLAY | | ※ | 1 |
| | 2-21 | ★82-ZM1-217-010 | REEL TABLE | | ※ | 2 |
| | 2-22 | ★82-ZM1-244-010 | SPR – C, BT | | ※ | 1 |
| | 2-23 | ★82-ZM1-285-010 | SPR – C, BT L | | ※ | 1 |
| | 2-24 | ★82-ZM1-257-010 | SPR – T, CAS | | ※ | 1 |
| | 2-25 | ★82-ZM1-241-010 | LVR, MC | (DECK 1) | ※ | 1 |
| | | | | (DECK 2) | ※ | 2 |
| | 2-26 | ★82-ZM1-242-010 | LVR, CAS | | ※ | 1 |
| | 2-27 | ★82-ZM1-243-010 | LVR, STOP | | ※ | 1 |
| | 2-28 | ★82-ZM1-253-110 | LVR ASSY, PINCH R | | ※ | 1 |
| | 2-29 | ★82-ZM1-259-010 | SPR – T, PINCH R | | ※ | 1 |
| | 2-30 | ★82-ZM1-240-010 | LVR, REC | (DECK 2) | ※ | 2 |

# EXPLODED VIEW – 3 (FX – WZ7000)

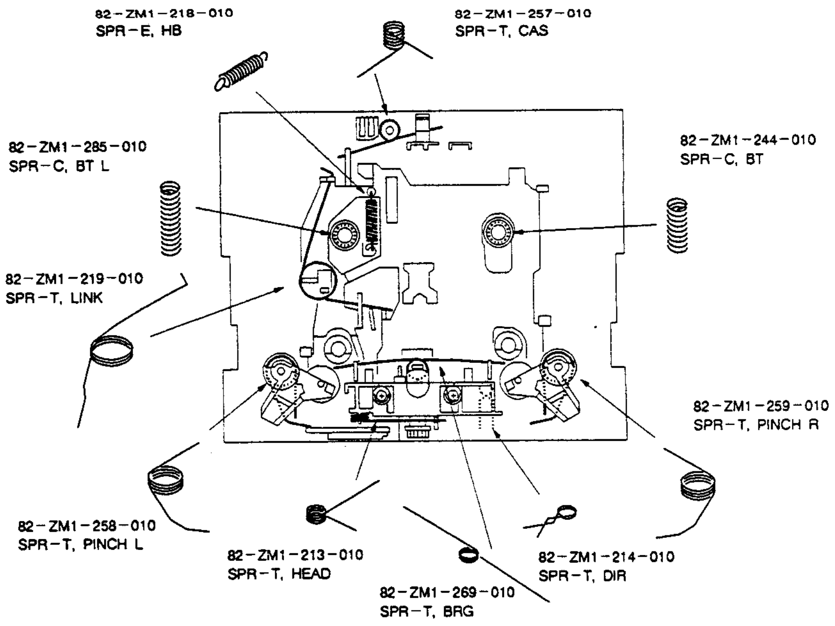
| REF.NO. | PART NO. | DESCRIPTION |
|---|---|---|
| A | 87 – 251 – 070 – 410 | U+2.6 – 3 |
| B | 87 – 741 – 073 – 410 | UT2+2.6 – 6 |
| C | 87 – 067 – 932 – 010 | PW. 2.15 – 6.8 – 0.5 |

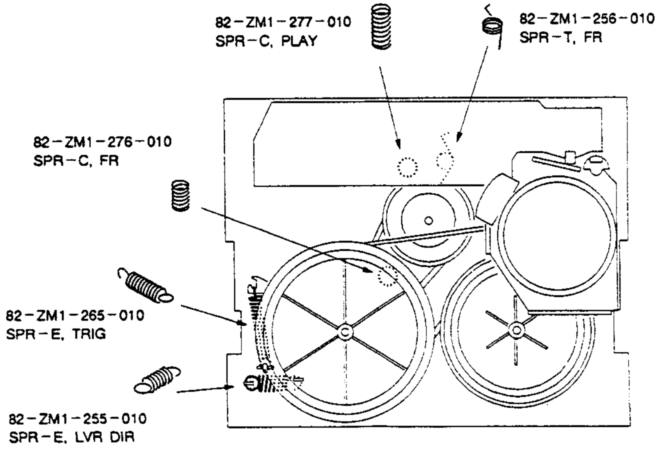


B
PCB – D (DECK 1)
PCB – E (DECK 2)
SOL – 1 (DECK 1)
SOL – 2 (DECK 2)
19
20
M1 (DECK 1)
M2 (DECK 2)
17
18
21
15
22
16
14
a
11
A
13
10
12
11
5
7
9
8
6
3
4
C
2
1
a
24
23

| PART NO. CHANGED TO | REF. NO. | PART NO. | DESCRIPTION | COMMON MODEL | Q.TY |
|---|---|---|---|---|---|
| | 3-1 | ★82-ZM1-255-010 | SPR – E, LVR DIR | ※ | 1 |
| | 3-2 | ★82-ZM1-221-010 | GEAR, CAM | ※ | 1 |
| | 3-3 | ★82-ZM1-227-010 | LVR, TRIG | ※ | 1 |
| | 3-4 | ★82-ZM1-224-010 | LVR, FR | ※ | 1 |
| | 3-5 | ★82-ZM1-265-010 | SPR – E, TRIG | ※ | 1 |
| | 3-6 | ★82-ZM1-277-010 | SPR – C, PLAY | ※ | 1 |
| | 3-7 | ★82-ZM1-223-010 | GEAR, PLAY | ※ | 1 |
| | 3-8 | ★82-ZM1-256-010 | SPR – T, FR | ※ | 1 |
| | 3-9 | ★82-ZM1-220-010 | GEAR, IDLER | ※ | 1 |
| | 3-10 | ★80-ZM6-217-010 | RING MAGNET 2 | | 1 |
| | 3-11 | ★82-ZM1-216-010 | GEAR, REEL | ※ | 2 |
| | 3-12 | ★82-ZM1-276-010 | SPR – C, FR | ※ | 1 |
| | 3-13 | ★82-ZM1-225-010 | GEAR, FR | ※ | 1 |
| | 3-14 | ★82-ZM1-226-010 | GEAR, REW | ※ | 1 |
| | 3-15 | ★82-ZM1-228-010 | SLIP DISK ASSY | ※ | 1 |
| | 3-16 | ★82-ZM1-261-010 | BELT, FR | ※ | 1 |
| | 3-17 | 82-ZM1-237-010 | FLY – WHL ASSY, R | ※ | 1 |
| | 3-18 | 82-ZM1-234-010 | FLY – WHL ASSY, L | ※ | 1 |
| | 3-19 | ★82-ZM1-260-010 | BELT, MAIN | ※ | 1 |
| | 3-20 | ★82-ZM1-245-010 | HLDR, IC | ※ | 1 |
| | 3-21 | ★82-ZM1-246-010 | HLDR, MOTOR | ※ | 1 |
| | 3-22 | ★82-ZM1-247-010 | PULLEY, MOTOR | ※ | 1 |
| | 3-23 | ★82-ZM1-288-010 | SH, 1.63 – 3.2 – 0.5 SLT | ※ | 1 |
| | 3-24 | ★80-ZM6-243-010 | SH, 1.75 – 3.6 – 0.5 SLT | | 1 |

## SPRING APPLICATION POSITION (FX-WZ7000)


82-ZM1-218-010
SPR-E, HB
82-ZM1-257-010
SPR-T, CAS
82-ZM1-285-010
SPR-C, BT L
82-ZM1-244-010
SPR-C, BT
82-ZM1-219-010
SPR-T, LINK
82-ZM1-259-010
SPR-T, PINCH R
82-ZM1-258-010
SPR-T, PINCH L
82-ZM1-213-010
SPR-T, HEAD
82-ZM1-214-010
SPR-T, DIR
82-ZM1-269-010
SPR-T, BRG


82-ZM1-277-010
SPR-C, PLAY
82-ZM1-256-010
SPR-T, FR
82-ZM1-276-010
SPR-C, FR
82-ZM1-265-010
SPR-E, TRIG
82-ZM1-255-010
SPR-E, LVR DIR

MODEL NO.

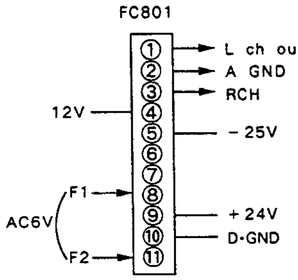
# TX-Z7000

## CAUTIONS WHEN SERVICING (TX-Z7000)

Model TX-Z7000 does no have a power supply circuit. Power is supplied to it through a 11-pin flat cable and the signal inputs/outputs are also perfomed through this cable.
When servicing the TX-Z7000 connect it to the MX-Z7000M so that power is supplied to the TX-Z7000.
If the MX-Z7000M is not available, follow the procedure below.

[When servicing the unassembled TX-Z7000]

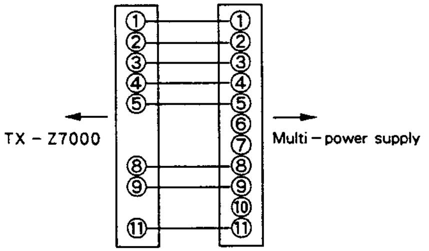
①Supply the following voltages to each terminal from an external power supply.


FC801
① L ch out
② A GND
③ RCH
12V ④
⑤ -25V
⑥
⑦
F1 ⑧
AC6V
⑨ +24V
⑩ D·GND
F2 ⑪

② Connection diagram when using multi power supply (LPS-9088).

- Turn the TX-Z7000 on using the SLEEP function since the POWER SW is not supplied.
- Connect the multi-conversion harness for the X5 type (modeified harness for F550) to J1.

Connection diagram of multi-conversion harness


TX-Z7000
Multi-power supply
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪

▨ : Short bar

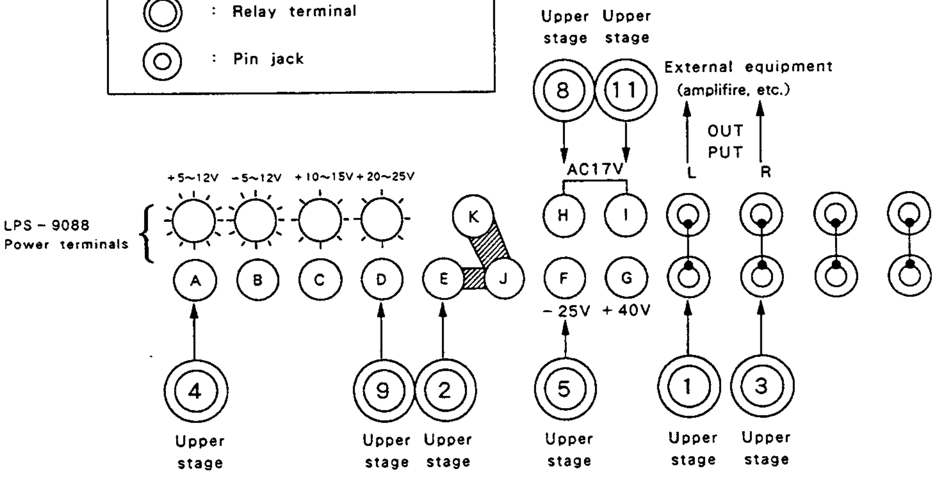
⟷ : Jumper cable

●⟶ : Ground cable of pin plug

○ : Power output terminal

◎ : Relay terminal

◎ : Pin jack


LPS-9088
Power terminals
+5~12V
-5~12V
+10~15V
+20~25V
A
B
C
D
E
J
K
H
I
F
G
-25V
+40V
AC17V
8
11
Upper stage
Upper stage
External equipment
(amplifire, etc.)
OUT PUT
L
R
4
9
2
5
1
3
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage

# ELECTRICAL MAIN PARTS LIST (TX－Z7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| IC | | | |
| | 87-001-376-010 | | IC, LC7218 |
| | 87-001-942-010 | | IC, LA1265S(G) |
| | 87-020-446-010 | | IC, TA7343AP |
| | 81-VT1-610-010 | | IC, UPD75268CW-029 |
| TRANSISTOR | | | |
| | 89-502-094-080 | | C-FET, 2SK209Y |
| | 89-502-115-080 | | C-FET, 2SK211GR(YE, YZ) |
| | 89-503-025-080 | | C-FET, 2SK302GR |
| | 89-327-143-080 | | C-TR, 2SC2714(0) |
| | 89-316-235-080 | | C-TR, 2SC1623J5 |
| | 89-327-125-080 | | C-TR, 2SC2712GR |
| | 89-333-266-080 | | C-TR, 2SC3326B |
| | 87-026-230-080 | | C-TR, DTA114YK |
| | 89-110-485-080 | | TR, 2SA1048GR |
| | 89-318-155-080 | | TR, 2SC1815GR |
| | 89-320-011-080 | | TR, 2SC2001K |
| | 89-324-585-080 | | TR, 2SC2458GR |
| | 87-026-214-080 | | TR, DTA114YS |
| DIODE | | | |
| | 87-020-125-080 | | C-DIODE, 1SS181 |
| | 87-020-027-080 | | C-DIODE, 1SS184 |
| | 87-026-360-080 | | C-VARICAP, KV1430(YLH, YH, YZ) |
| | 87-026-360-010 | | C-VARICAP, KV1430(YE) |
| | 87-020-583-080 | | C-ZENER, 02CZ5. 1Y |
| | 87-020-585-080 | | C-ZENER, 02CZ6. 2Y |
| | 87-020-110-080 | | DIODE, 1SS177 |
| | 81-754-634-090 | | VARI-CAP, KV1260(YE, YZ) |
| | 87-027-449-080 | | ZENER, HZ15-3L |
| | 87-017-172-080 | | ZENER, HZS11A1L |
| MAIN C. B | | | |
| | 81-MT3-655-010 | | AM PACK 1. S(YLH, YH) |
| | 81-689-212-010 | | PLATE, EARTH |
| C1 | 87-010-312-080 | | C-CAP, S 15P-50 CH |
| C2 | 87-015-819-080 | | C-CAP, 0. 01 |
| C3 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C4 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C5 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C6 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C7 | 87-010-147-080 | | C-CAP, S 3P-50 CH(YZ) |
| C7 | 87-010-150-080 | | C-CAP, S 6P-50 CH(YLH, YH, YE) |
| C8 | 87-018-102-080 | | CAP, TC-U 6. 8P-50 SL(YLH, YH, YE) |
| C9 | 87-010-158-080 | | C-CAP, S 22P-50 SL |
| C10 | 87-010-154-080 | | C-CAP, S 10P-50 CH |
| C11 | 87-010-312-080 | | C-CAP, S 15P-50 CH |
| C12 | 87-010-312-080 | | C-CAP, S 15P-50 CH |
| C13 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C14 | 87-010-146-080 | | C-CAP, S 2P-50 CH |
| C15 | 87-010-145-080 | | C-CAP, S 1P-50 CH(YLH, YH, YE) |
| C15 | 87-010-148-080 | | C-CAP, S 4P-50 CH(YZ) |
| C16 | 87-010-154-080 | | C-CAP, S 10P-50 CH(YLH, YH, YE) |
| C16 | 87-010-149-080 | | C-CAP, S 5P-50 CH(YZ) |
| C17 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C18 | 87-010-170-080 | | C-CAP, S 220P-50 SL |
| C19 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C20 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C21 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C22 | 87-010-400-080 | | CAP, E 0. 47-50 SME |
| C23 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C24 | 87-010-149-080 | | C-CAP, S 5P-50 CH |
| C25 | 87-010-197-080 | | C-CAP, S 0. 01-25 B(YLH, YH, YE) |
| C26 | 87-010-312-080 | | C-CAP, S 15P-50 CH |
| C27 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C30 | 87-010-401-080 | | CAP, E 1-50 SME |

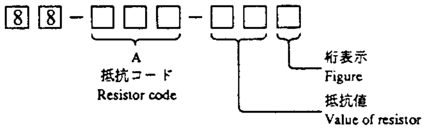
| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| C31 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C32 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C33 | 87-010-405-080 | | CAP, E 10-50 SME |
| C34 | 87-010-166-080 | | C-CAP, S 100P-50 SL |
| C35 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C36 | 87-010-401-080 | | CAP, E 1-50 SME |
| C37 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C38 | 87-010-405-080 | | CAP, E 10-50 SME |
| C39 | 87-010-544-080 | | CAP, E 0. 1-50 |
| C40 | 87-010-403-080 | | CAP, E 3. 3-50 SME |
| C41 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C42 | 87-010-404-080 | | CAP, E 4. 7-50 SME(YZ) |
| C43 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C45 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C46 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C47 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C48 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C49 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C50 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C51 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C52 | 87-010-197-080 | | C-CAP, S 0. 01-25 B(YE, YZ) |
| C53 | 87-010-196-080 | | C-CAP, S 0. 1-25 F |
| C54 | 87-010-197-080 | | C-CAP, S 0. 01-25 B(YE, YZ) |
| C55 | 87-014-049-080 | | CAP, PP 470P-100 J(YE, YZ) |
| C56 | 87-010-158-080 | | C-CAP, S 22P-50 SL(YE, YZ) |
| C56 | 87-010-152-080 | | C-CAP, S 8P-50 CH(YLH, YH) |
| C57 | 87-010-169-080 | | C-CAP, S 180P-50 SL(YE, YZ) |
| C58 | 87-014-050-080 | | CAP, PP 510P-100 J(YE, YZ) |
| C60 | 87-010-404-080 | | CAP, E 4. 7-50 SME(YZ) |
| C61 | 87-010-401-080 | | CAP, E 1-50 SME |
| C62 | 87-010-403-080 | | CAP, E 3. 3-50 SME |
| C63 | 87-014-057-080 | | CAP, PP 1000P-100 J |
| C64 | 87-010-405-080 | | CAP, E 10-50 SME |
| C67 | 87-010-220-080 | | C-CAP, S 0. 018-25 B |
| C68 | 87-010-220-080 | | C-CAP, S 0. 018-25 B |
| C69 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C70 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C73 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C74 | 87-010-404-080 | | CAP, E 4. 7-50 SME |
| C75 | 87-010-248-080 | | CAP, E 220-10 SME |
| C76 | 87-010-312-080 | | C-CAP, S 15P-50 CH |
| C77 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C78 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C79 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C80 | 87-010-384-080 | | CAP, E 100-25 SME |
| C81 | 87-010-186-080 | | C-CAP, S 4700P-50 B |
| C82 | 87-010-400-080 | | CAP, E 0. 47-50 SME |
| C83 | 87-015-762-080 | | C-CAP, 68P SL |
| C84 | 87-010-164-080 | | C-CAP, S 68P-50 SL |
| C85 | 87-010-164-080 | | C-CAP, S 68P-50 SL |
| C86 | 87-018-134-080 | | CAP, TC-U 0. 01-16 Y |
| C87 | 87-010-263-080 | | CAP, E 100-10(YLH, YH, YE) |
| C87 | 87-010-404-080 | | CAP, E 4. 7-50 SME(YZ) |
| C88 | 87-010-381-080 | | CAP, E 330-16 SME |
| C100 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C101 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| C102 | 87-010-311-080 | | C-CAP, S 12P-50 CH(YE, YZ) |
| C103 | 87-010-197-080 | | C-CAP, S 0. 01-25 B(YE) |
| C103 | 87-010-311-080 | | C-CAP, S 12P-50 CH(YZ) |
| C104 | 87-010-197-080 | | C-CAP, S 0. 01-25 B(YZ) |
| C106 | 87-010-145-080 | | C-CAP, S 1P-50 CH(YZ) |
| C110 | 87-010-263-080 | | CAP, E 100-10 |
| C111 | 87-010-405-080 | | CAP, E 10-50 SME |
| C112 | 87-010-401-080 | | CAP, E 1-50 SME |
| C781 | 87-010-197-080 | | C-CAP, S 0. 01-25 B |
| CF1 | 87-030-105-010 | | FLTR, BPMB6A(YZ) |
| CF2 | 82-799-621-010 | | FLTR, SFE10. 7MS2-A(YZ) |
| CF2 | 87-008-261-010 | | FLTR, SFE10. 7MA5-A(YLH, YH, YE) |
| CF3 | 87-008-261-010 | | FLTR, SFE10. 7MA5-A(YZ) |
| CF4 | 87-008-261-010 | | FLTR, SFE10. 7MA5-A |

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| CF5 | 82-794-670-010 | | BFU450C4N |
| J1 | 81-653-648-010 | | ANT TERM EARTH PAL(YE, YZ) |
| J1 | 81-653-638-110 | | ANT TERMINAL EARTH(YLH, YH) |
| J1 | 81-631-646-010 | | ANT TERM 2P PAL(YE, YZ) |
| J1 | 87-033-214-010 | | ANT TERM 4P(JT)(YLH, YH) |
| J2 | 81-754-629-010 | | CONNECTOR XH M 2P (UL)(YE) |
| L1 | 87-006-209-010 | | COIL, ANT FM 3/4 T |
| L2 | 87-006-210-010 | | COIL, ANT FM 2 3/4T |
| L3 | 87-006-200-010 | | COIL, RF FM 3-1/2T, L5 |
| L4 | 87-006-201-010 | | COIL, RF FM3-1/2TS, L5 |
| L5 | 87-006-201-010 | | COIL, RF FM3-1/2TS, L5(YZ) |
| L6 | 87-006-205-010 | | COIL, OSC FM(7K) |
| L7 | 87-003-231-080 | | C-COIL, S1UH |
| L8 | 87-008-427-010 | | COIL, FMIFT(4T) |
| L9 | 81-631-611-010 | | COIL, QUAD(SINGLE) |
| L11 | 87-008-452-010 | | FILTER, CFAZ-450 |
| L12 | 87-006-207-010 | | COIL, ANT MW (3B)(YE, YZ) |
| L13 | 87-006-208-010 | | COIL, ANT LW(YE, YZ) |
| L14 | 82-794-687-010 | | COIL, OSC(YE, YZ) |
| L15 | 87-008-461-010 | | COIL, 2POLE MPX |
| L16 | 87-008-461-010 | | COIL, 2POLE MPX |
| L17 | 82-794-688-010 | | COIL, OSC LW(YE, YZ) |
| L18 | 87-008-421-010 | | COIL, FILTER AMTI-BIRDIE(YZ) |
| L19 | 87-003-098-080 | | COIL, 2. 2UH |
| SFR1 | 87-024-174-080 | | SFR, 33K DIA6 V |
| SFR2 | 87-024-171-080 | | SFR, 4. 7K DIA6 V |
| TC1 | 87-011-219-080 | | CAP, TRIMMER 10P VCT |
| TC2 | 87-011-219-080 | | CAP, TRIMMER 10P VCT |
| TC3 | 87-011-219-080 | | CAP, TRIMMER 10P VCT(YZ) |
| TC4 | 87-011-220-080 | | CAP, TRIMMER 20P VCT(YE, YZ) |
| TC5 | 87-011-221-080 | | TRIMMER, 30P VCT51 |
| TC6 | 87-011-221-080 | | TRIMMER, 30P VCT51(YE, YZ) |
| WH802 | 82-VT1-605-010 | | CORD, FG 11P |
| X1 | 87-030-163-010 | | VIB, XTAL 7. 2MHZ(NDK) |
| FRONT C. B | | | |
| C901 | 87-018-131-080 | | CAP, TC-U 1000P-50 B |
| C902 | 87-010-553-080 | | CAP, E 47-16 |
| C903 | 87-010-498-080 | | CAP, E 10-16 5L |
| C904 | 87-010-494-080 | | CAP, E GAS 1/50 |
| C905 | 87-018-131-080 | | CAP, TC-U 1000P-50 B |
| C906 | 87-010-497-080 | | CAP, E 4. 7-35 5L |
| C907 | 87-010-494-080 | | CAP, E GAS 1/50 |
| C908 | 87-010-494-080 | | CAP, E GAS 1/50 |
| C909 | 87-018-134-080 | | CAP, TC-U 0. 01-16 Y |
| C910 | 87-010-252-080 | | CAP, E(TAPG) 1000-6. 3V |
| C911 | 87-018-209-080 | | CAP, TC-U 0. 1-50 F |

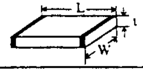
| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| C912 | 87-018-209-080 | | CAP, TC-U 0. 1-50 F |
| C913 | 87-018-209-080 | | CAP, TC-U 0. 1-50 F |
| C915 | 87-010-381-080 | | CAP, E 330-16 SME |
| C916 | 87-010-381-080 | | CAP, E 330-16 SME |
| CF901 | 87-008-394-080 | | CF CST 4. 19 MGW |
| FL901 | 80-VT1-608-010 | | FL, 9BT-83GK |
| L901 | 87-003-102-080 | | COIL, 10UH |
| L902 | 87-003-102-080 | | COIL, 10UH |
| L903 | 87-003-102-080 | | COIL, 10UH |
| L904 | 87-003-102-080 | | COIL, 10UH |
| RU901 | 87-002-669-010 | | IC, GP1U571X |
| SW901 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW901 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW902 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW902 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW903 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW903 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW904 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW904 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW905 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW905 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW906 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW906 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW907 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW907 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW908 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW908 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW909 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW909 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW910 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW910 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW911 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW911 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW912 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW912 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW913 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW913 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW914 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW914 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW915 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW915 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW916 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW916 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW917 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW917 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |
| SW918 | 87-036-215-080 | | SW, TACT EVQ21404M(YLH, YH) |
| SW918 | 87-036-259-080 | | SW, TACT SKHVBB(YE, YZ) |

## ○チップ抵抗部品コード／CHIP RESISTOR PART CODE

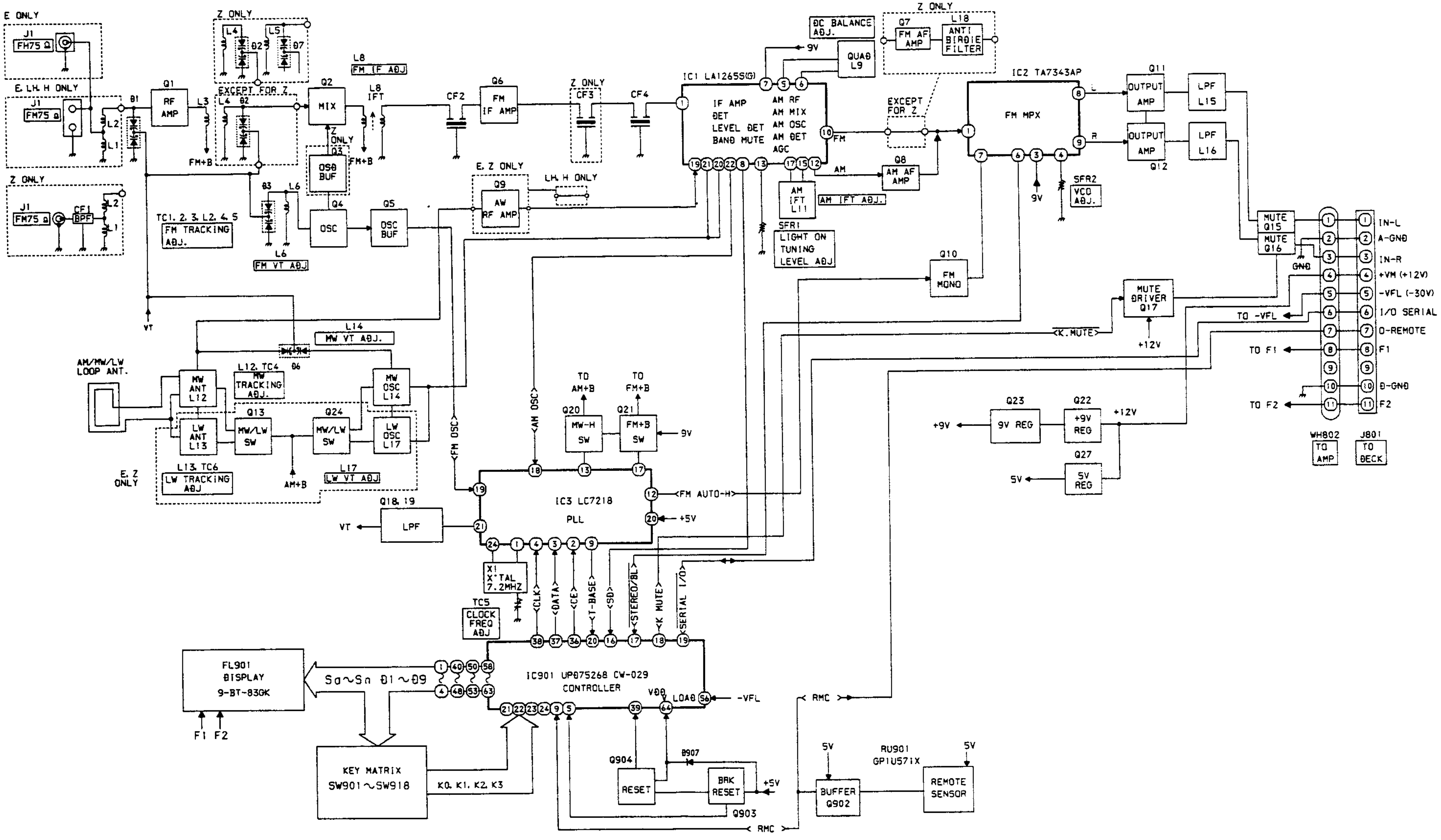
チップ抵抗部品コードの成り立ち
Chip resistor part coding



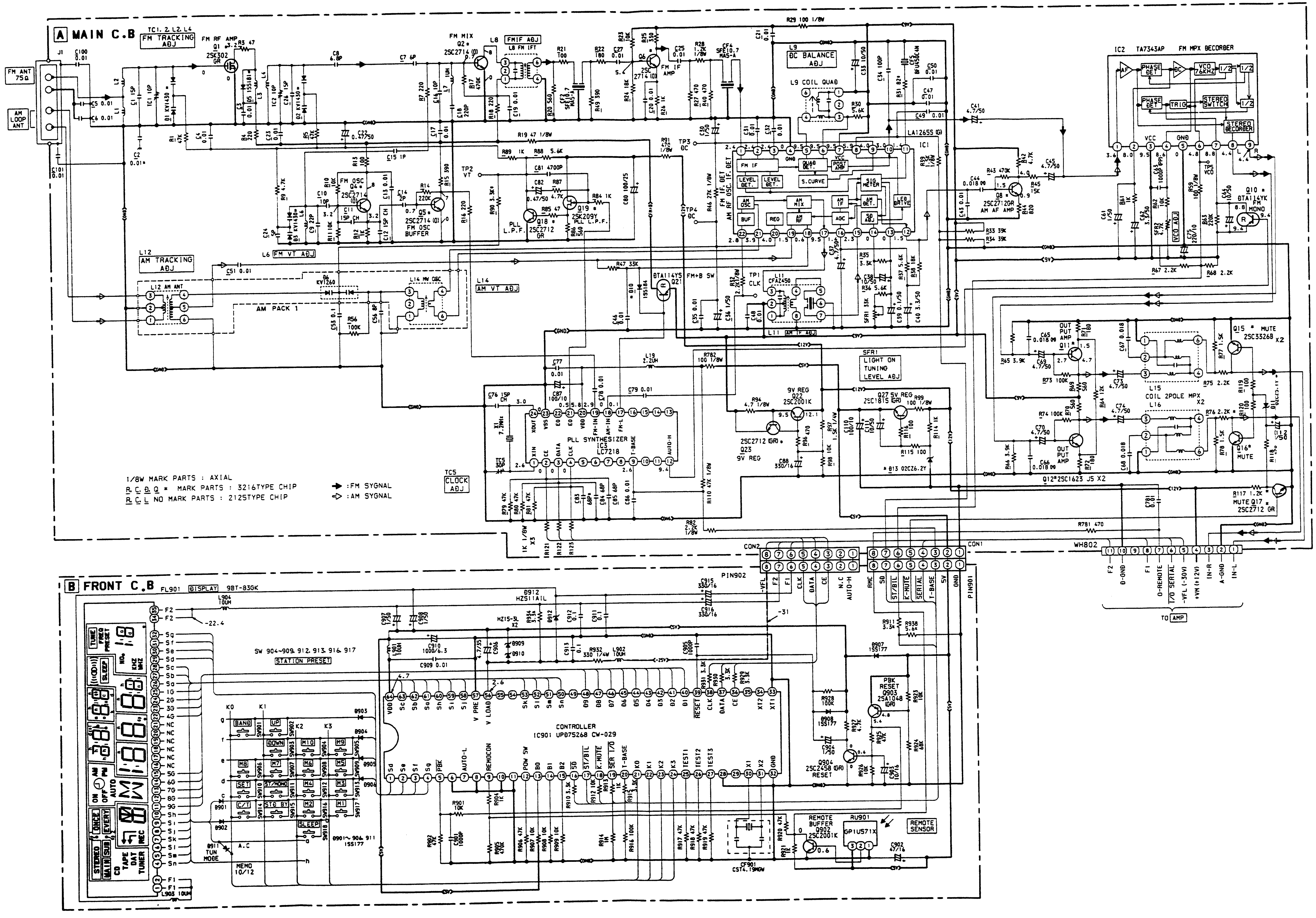
チップ抵抗
Chip resistor

| Wattage 容量 | Type 種類 | Tolerance 許容誤差 | Symbol 記号 | Dimensions／寸法 (mm) Form/外形 | L | W | t | Resistor code : A 抵抗コード : A |
|---|---|---|---|---|---|---|---|---|
| 1/32W | 1608 | ±5% | CJ |  | 1.6 | 0.8 | 0.35 | 108 |
| 1/10W | 2125 | ±5% | CJ | | 2 | 1.25 | 1.45 | 118 |
| 1/8W | 3216 | ±5% | CJ | | 3.2 | 1.6 | 0.5 ~0.7 | 128 |

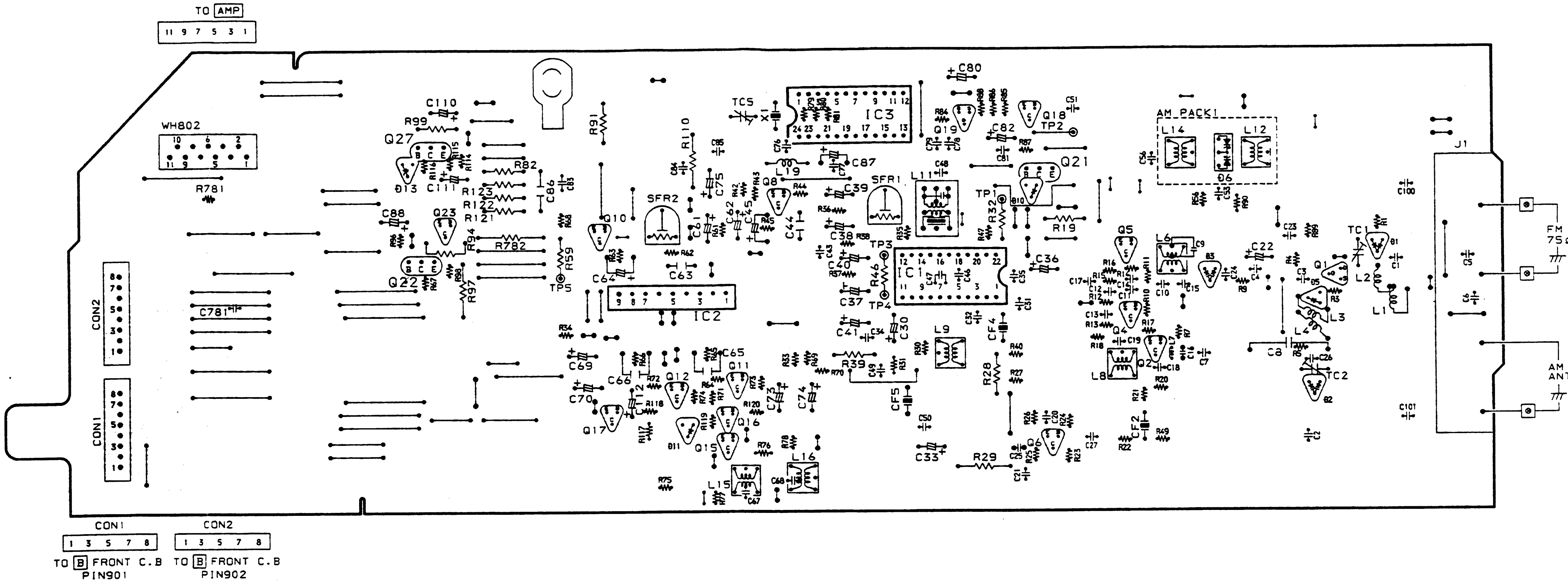
# BLOCK DIAGRAM (TX – Z7000)


E ONLY
J1
FM75 Ω
E, LH, H ONLY
Z ONLY
CF1
BPF
L1
L2
Q1
RF AMP
L3
FM+B
D1
Z ONLY
L4
L5
D2
D7
EXCEPT FOR Z
L4 D2
Q2
MIX
L8
FM IF ADJ
L8
IFT
Z ONLY
Q3
OSC BUF
FM+B
Q4
OSC
Q5
OSC BUF
D3
L6
L6
FM VT ADJ
TC1, 2, 3, L2, 4, 5
FM TRACKING ADJ.
VT
CF2
Q6
FM IF AMP
Z ONLY
CF3
CF4
E, Z ONLY
Q9
AM RF AMP
LH, H ONLY
IC1 LA1265S(G)
IF AMP
DET
LEVEL DET
BAND MUTE
AM RF
AM MIX
AM OSC
AM DET
AGC
FM
AM
DC BALANCE ADJ.
9V
QUAD L9
AM IFT L11
AM IFT ADJ.
SFR1
LIGHT ON TUNING LEVEL ADJ
Z ONLY
Q7
FM AF AMP
L18
ANTI BIRDIE FILTER
EXCEPT FOR Z
Q8
AM AF AMP
IC2 TA7343AP
FM MPX
L
R
9V
SFR2
VCO ADJ.
Q10
FM MONO
Q11
OUTPUT AMP
Q12
OUTPUT AMP
LPF L15
LPF L16
MUTE Q15
MUTE Q16
GND
MUTE DRIVER Q17
+12V
TO -VFL
K.MUTE
TO F1
TO F2
IN-L
A-GND
IN-R
+VM (+12V)
-VFL (-30V)
I/O SERIAL
D-REMOTE
F1
D-GND
F2
WH802
TO AMP
J801
TO DECK
AM/MW/LW LOOP ANT.
MW ANT L12
L12, TC4
MW TRACKING ADJ.
D6
L14
MW VT ADJ.
MW OSC L14
Q13
MW/LW SW
Q24
MW/LW SW
LW ANT L13
LW OSC L17
L13, TC6
LW TRACKING ADJ
AM+B
L17
LW VT ADJ
E, Z ONLY
FM OSC
AM OSC
TO AM+B
TO FM+B
Q20
MW-H SW
Q21
FM+B SW
9V
IC3 LC7218
PLL
FM AUTO-H
+5V
Q18, 19
LPF
VT
X1
X'TAL 7.2MHZ
TC5
CLOCK FREQ ADJ
CLK
DATA
CE
T-BASE
SD
STEREO/BL
K MUTE
SERIAL I/O
Q23
9V REG
+9V
Q22
+9V REG
+12V
Q27
5V REG
5V
FL901
DISPLAY
9-BT-83GK
Sa~Sn D1~D9
F1 F2
IC901 UPD75268 CW-029
CONTROLLER
VDD
LOAD
-VFL
KEY MATRIX
SW901~SW918
K0, K1, K2, K3
Q904
RESET
D907
BRK RESET
+5V
Q903
RMC
RMC
5V
BUFFER Q902
RU901
GP1U57IX
5V
REMOTE SENSOR

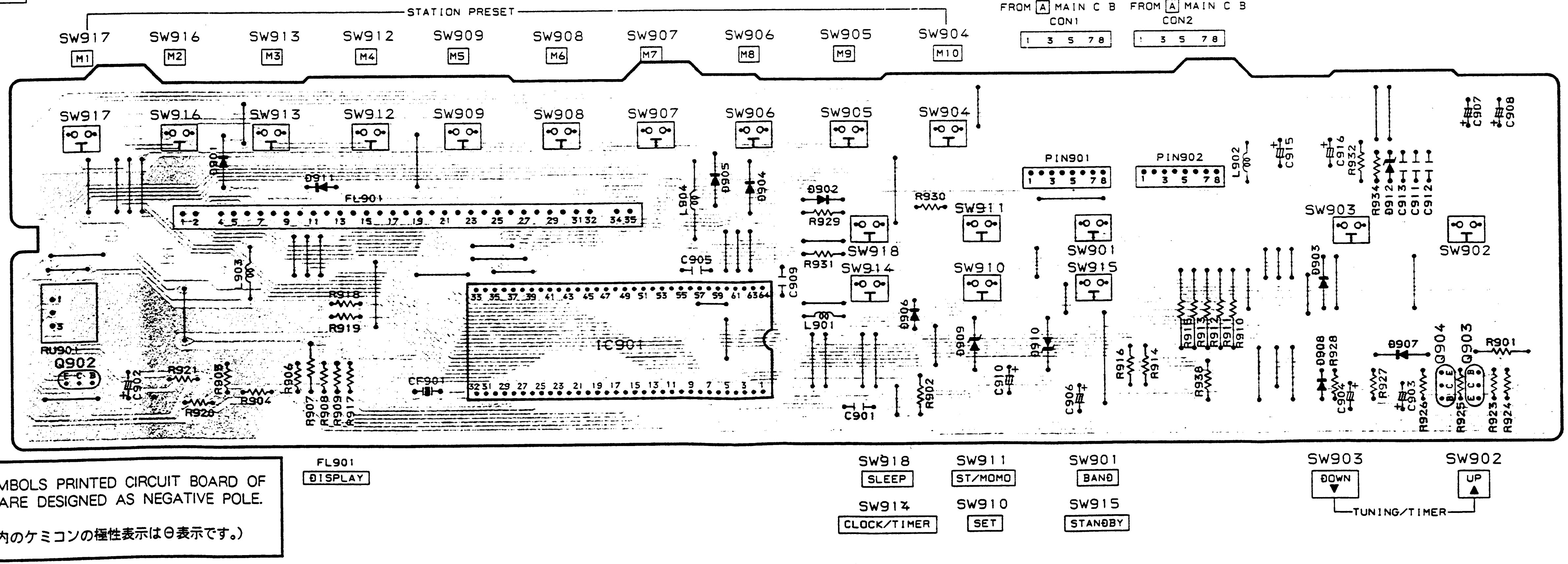
# SCHEMATIC DIAGRAM – 1 (TX – Z7000H)


A MAIN C.B
FM TRACKING ADJ
FM RF AMP Q1 2SK302 GR
FM MIX Q2 2SC2714 (O)
FMIF ADJ
L8 FM IFT
FM IF AMP Q6 2SC2714 (O)
SFE10.7 MA5-A
L9 ØC BALANCE AØJ
L9 COIL QUAD
LA1265S (G) IC1
IC2 TA7343AP FM MPX DECORDER
PHASE DET
VCO 76KHZ
TRIG
STEREO SWITCH
STEREO DECORDER
FM ANT 75Ω
AM LOOP ANT
FM OSC Q4 2SC2714 (O)
FM OSC BUFFER Q5 2SC2714 (O)
PLL L.P.F. Q18 2SC2712 GR
PLL L.P.F. Q19 2SK209Y
AM AF AMP Q8 2SC2712GR
FM MONO Q10 DTA114YK
L12 AM TRACKING AØJ
L6 FM VT AØJ
L14 AM VT AØJ
L12 AM ANT
L14 MW OSC
AM PACK 1
DTA114YS Q21 FM+B SW
L11 CFA2450
L11 AM IF AØJ
PLL SYNTHESIZER IC3 LC7218
TC5 CLOCK AØJ
9V REG Q22 2SC2001K
5V REG Q27 2SC1815 (GR)
2SC2712 (GR) Q23 9V REG
SFR1 LIGHT ON TUNING LEVEL AØJ
OUT PUT AMP Q11
OUT PUT AMP Q12 2SC1623 J5 X2
L15 L16 COIL 2POLE MPX X2
Q15 MUTE 2SC3326B X2
Q16 MUTE
MUTE Q17 2SC2712 GR
1/8W MARK PARTS : AXIAL
R, C, D, Q * MARK PARTS : 3216TYPE CHIP
R, C, L NO MARK PARTS : 2125TYPE CHIP
:FM SYGNAL
:AM SYGNAL
CON2
CON1
WH802
F2 D-GND F1 D-REMOTE I/O SERIAL -VFL (-30V) +VN (+12V) IN-R A-GND IN-L
TO AMP
B FRONT C.B
FL901 DISPLAY 9BT-83GK
PIN902
PIN901
-VFL F2 F1 CLK DATA CE N.C AUTO-H
RMC SO ST/BTL K-MUTE SERIAL T-BASE 5V GND
D912 HZS11A1L
SW 904~909, 912, 913, 916, 917 STATION PRESET
CONTROLLER IC901 UPD75268 CW-029
PBK RESET Q903 2SA1048 (GR)
Q904 2SC2458 (GR) RESET
REMOTE BUFFER Q902 2SC2001K
RU901 GP1U571X
REMOTE SENSOR
CF901 CST4.19MGW
BAND UP DOWN M10 M9 M8 M7 M6 M5 SET ST/MONO M4 M3 C/T STD BY M2 M1 SLEEP
D911 TUN MODE
MEMO 10/12
D901~904, 911 1SS177

## A MAIN C.B


TO AMP
11 9 7 5 3 1
WH802
R781
CON2
CON1
C781
C110
R99
Q27
Ø13
C111
C88
Q23
Q22
R82
R123
R122
R121
R94
R782
R97
R59
TP5
C86
R91
R110
Q10
SFR2
C62
C63
IC2
C69
C66
C70
Q17
C65
Q11
Q12
Q15
Q16
L15
L16
C74
C73
TCS
X1
IC3
L19
C87
C80
Q19
Q18
C82
TP2
C39
C38
SFR1
L11
TP3
TP1
C40
R46
C37
TP4
C41
C30
R39
L9
CF4
CF5
C33
R29
R32
R19
IC1
C36
Q21
R28
Q6
CF2
AM PACK1
L14
L12
Ø6
Q5
L6
C22
TC1
Q1
L2
L1
L3
L4
C8
L8
Q2
Q4
TC2
J1
FM ANT
75Ω
AM LOOP
ANT
CON1
1 3 5 7 8
TO B FRONT C.B
PIN901
CON2
1 3 5 7 8
TO B FRONT C.B
PIN902

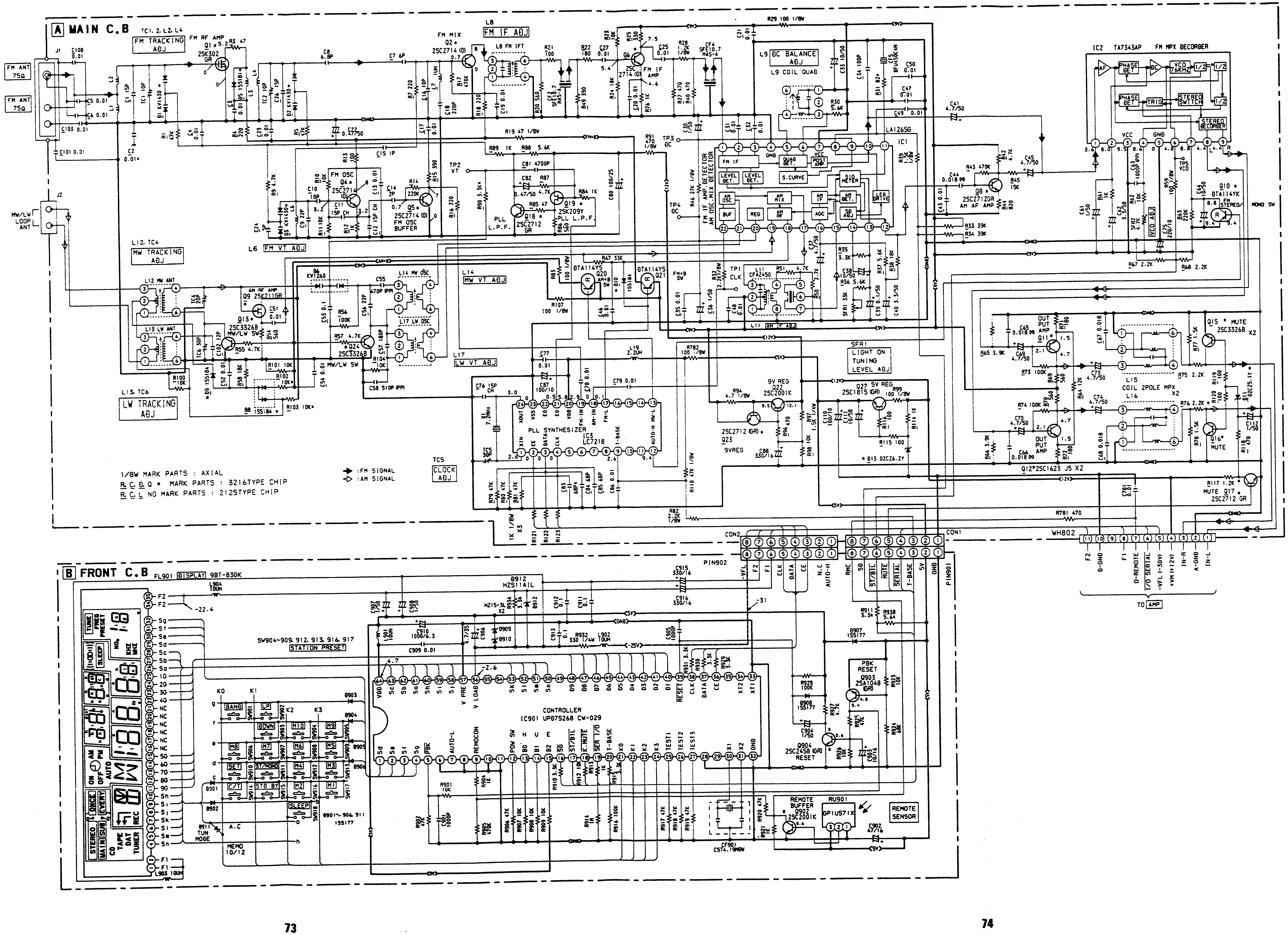
## B FRONT C.B


STATION PRESET
SW917 M1
SW916 M2
SW913 M3
SW912 M4
SW909 M5
SW908 M6
SW907 M7
SW906 M8
SW905 M9
SW904 M10
FROM A MAIN C B
CON1
1 3 5 7 8
FROM A MAIN C B
CON2
1 3 5 7 8
Ø911
FL901
1 2 3 4 5 7 9 11 13 15 17 19 21 23 25 27 29 31 32 34 35
Ø905
Ø904
L904
C905
Ø902
R929
R930
SW911
SW918
R931
SW914
SW910
SW901
SW915
C909
L901
IC901
33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 64
32 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1
L903
R918
R919
RU901
Q902
C902
R921
R905
R920
R904
R906
R907
R908
R909
R917
CF901
Ø906
Ø909
C910
Ø910
R902
C901
C906
R916
R914
PIN901
1 3 5 7 8
PIN902
1 3 5 7 8
L902
C915
C916
R932
R934
Ø912
C913
C911
C912
SW903
SW902
Ø903
R915
R913
R912
R911
R910
R938
Ø908
R928
C904
R927
Ø907
C903
Q904
Q903
R901
R926
R925
R923
R924
C907
C908
FL901
DISPLAY
SW918
SLEEP
SW911
ST/MOMO
SW901
BAND
SW914
CLOCK/TIMER
SW910
SET
SW915
STANDBY
SW903
DOWN
SW902
UP
TUNING/TIMER

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

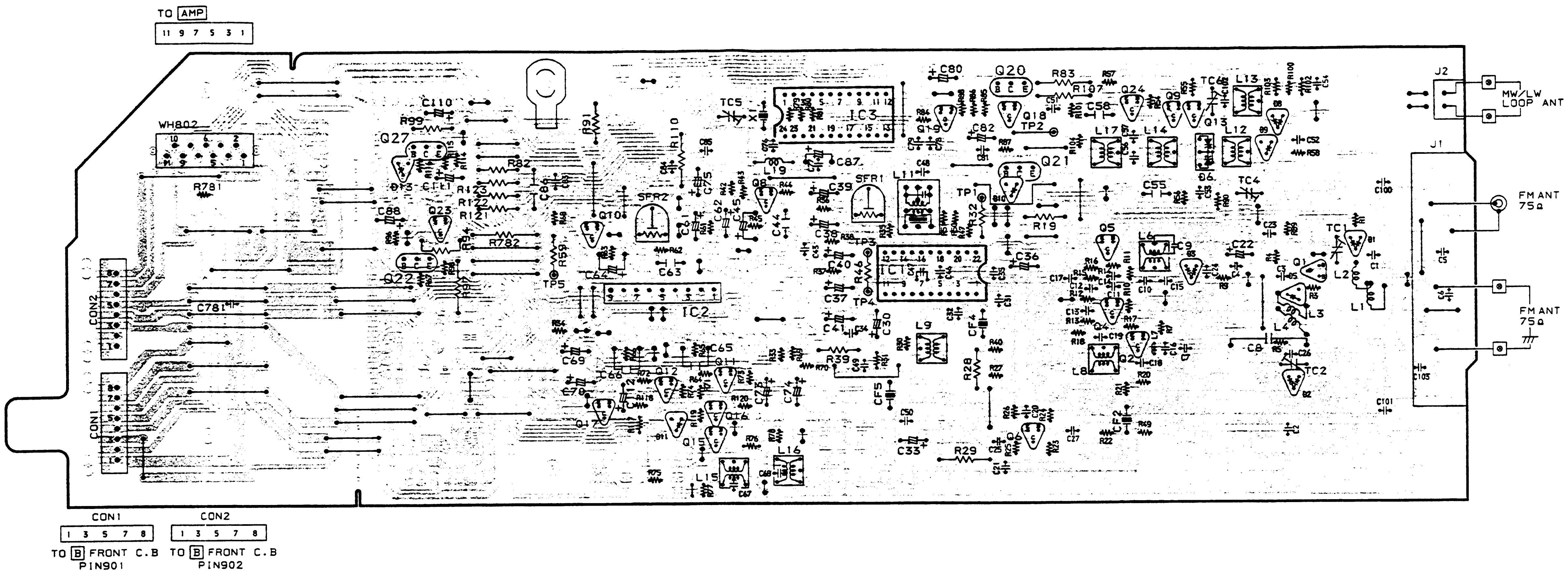
（プリント基板内のケミコンの極性表示は⊖表示です。）

## SCHEMATIC DIAGRAM – 2 (TX – Z7000 E)


A MAIN C.B
B FRONT C.B
FM ANT 75Ω
MW/LW LOOP ANT
FM TRACKING ADJ
FM RF AMP
FM MIX
FM IF ADJ
L8 FM IFT
FM IF AMP
L9 DC BALANCE ADJ
L9 COIL QUAD
IC1 LA1265G
FM OSC
FM OSC BUFFER
PLL L.P.F.
L6 FM VT ADJ
L12, TC4 MW TRACKING ADJ
L13, TC6 LW TRACKING ADJ
MW/LW SW
L14 MW OSC
L17 LW OSC
L14 MW VT ADJ
L17 LW VT ADJ
TC5 CLOCK ADJ
IC3 LC7218 PLL SYNTHESIZER
9V REG
5V REG
SFR1 LIGHT ON TUNING LEVEL ADJ
IC2 TA7343AP FM MPX DECORDER
PHASE DET
VCO 76KHZ
STEREO SWITCH
STEREO DECORDER
MONO SW
AM AF AMP
OUT PUT AMP
L15 COIL 2POLE MPX X2
L16
MUTE
Q12*2SC1623 J5 X2
1/8W MARK PARTS : AXIAL
R, C, D, Q * MARK PARTS : 3216TYPE CHIP
R, C, L NO MARK PARTS : 2125TYPE CHIP
➡ :FM SIGNAL
⇨ :AM SIGNAL
CON1
CON2
WH802
TO AMP
PIN901
PIN902
FL901 DISPLAY 9BT-83GK
SW904~909, 912, 913, 914, 917 STATION PRESET
CONTROLLER IC901 UPD75268 CW-029
BAND
UP
DOWN
MEMO
SET
ST/MONO
C/T
STD BY
SLEEP
TUN MODE
PBK RESET
REMOTE BUFFER
RU901 GP1U57X
REMOTE SENSOR
CF901 CST4.19MGW

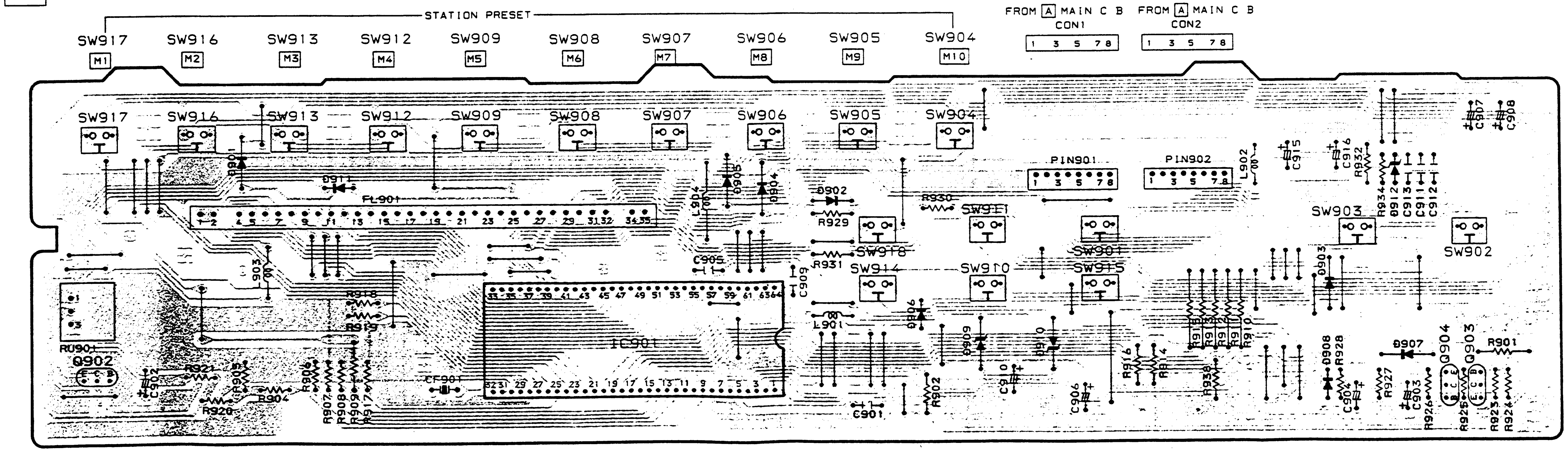
# WIRING – 2 (TX – Z7000E)

## A MAIN C.B



TO AMP
11 9 7 5 3 1
WH802
R781
C781
CON2
CON1
C110
R99
Q27
Q13
C111
R82
R123
R122
R121
C88
Q23
R782
Q22
R59
TP5
R91
R110
SFR2
Q10
C63
C64
IC2
C69
C66
C65
Q12
Q11
C70
Q17
Q16
Q15
L15
L16
C62
C44
TC5
IC3
C87
L19
Q9
C39
SFR1
C38
TP3
R46
C40
C37
TP4
C41
C30
R39
L9
CF4
CF5
C50
C33
R29
C80
Q20
Q19
Q18
TP2
C82
L11
TP1
R32
IC1
R19
C36
R83
R107
C58
Q24
Q21
L17
L14
L12
L13
TC4
TC6
C55
Q6
Q5
L4
C9
C22
R28
L8
Q2
Q4
CF2
C27
J2
MW/LW LOOP ANT
J1
FM ANT 75Ω
FM ANT 75Ω
TC1
Q1
L2
L1
L3
TC2
C8
C100
C101
C103
CON1
1 3 5 7 8
TO B FRONT C.B PIN901
CON2
1 3 5 7 8
TO B FRONT C.B PIN902

## B FRONT C.B

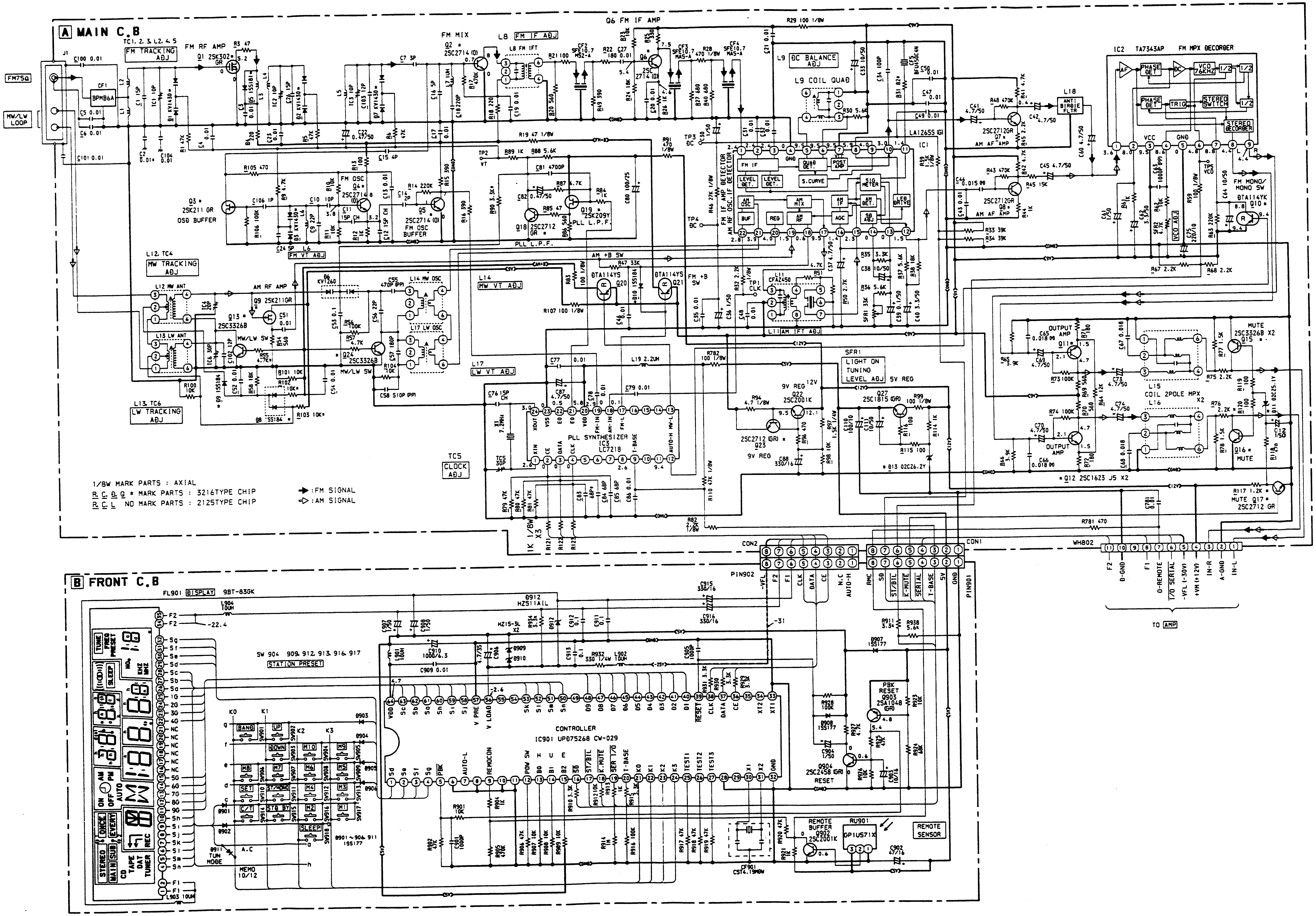


STATION PRESET
SW917 M1
SW916 M2
SW913 M3
SW912 M4
SW909 M5
SW908 M6
SW907 M7
SW906 M8
SW905 M9
SW904 M10
FROM A MAIN C B CON1
1 3 5 7 8
FROM A MAIN C B CON2
1 3 5 7 8
PIN901
PIN902
FL901
IC901
D901
D911
D905
D904
D902
R929
R930
SW911
SW918
SW914
SW910
SW901
SW915
SW903
SW902
R931
C905
C909
L901
L903
R918
R919
RU901
Q902
R921
R920
R905
R904
R906
R907
R908
R909
R917
CF901
C901
R902
C910
D909
D910
D906
C906
R916
R914
R938
D903
D908
R928
D907
Q904
Q903
R901
R927
C903
C904
R926
R925
R923
R924
C907
C908
C915
C916
R932
R934
D912
C913
C911
C912
L902
FL901 DISPLAY
SW918 SLEEP
SW911 ST/MONO
SW901 BAND
SW914 CLOCK/TIMER
SW910 SET
SW915 STANDBY
SW903 DOWN ▼
SW902 UP ▲
TUNING/TIMER

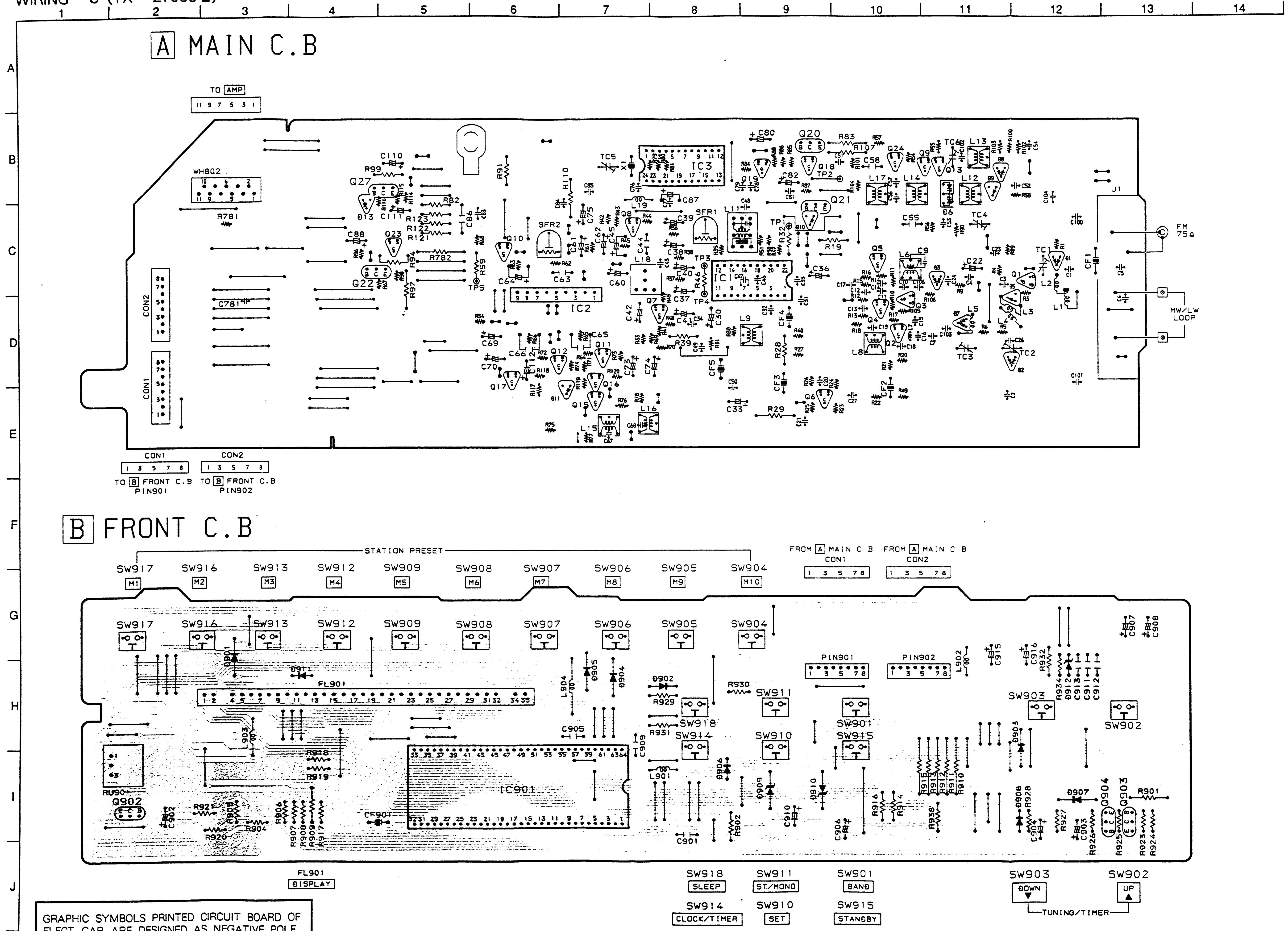
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

# SCHEMATIC DIAGRAM – 3 (TX – Z7000 Z)


A MAIN C.B
B FRONT C.B
FM75Ω
MW/LW LOOP
J1
CF1 BPMB6A
TC1, 2, 3 L2, 4, 5 FM TRACKING ADJ
FM RF AMP Q1 2SK302
FM MIX Q2 2SC2714 (O)
L8 FM IF ADJ
L8 FM IFT
Q6 FM IF AMP
CF2 SFE10.7 MS2-A
CF3 SFE10.7 MA5-A
CF4 SFE10.7 MA5-A
L9 DC BALANCE ADJ
L9 COIL QUAD
IC1 LA1265S (G)
FM IF
LEVEL DET.
QUAD DET.
POST AMP
S.CURVE
S/Q METER
LED DRIVE
AM OSC
AM MIX
AM IF
AM DET.
BUF
REG
AGC
SD ADJ
FM IF AMP DETECTOR
AM RF OSC. IF DETECTOR
TP1 CLK
TP2 VT
TP3 DC
TP4 DC
TP5 VCO
Q3 2SK211 GR OSC BUFFER
Q4 2SC2714 FM OSC
Q5 2SC2714 (O) FM OSC BUFFER
Q18 2SC2712
Q19 2SK209Y PLL L.P.F.
PLL L.P.F.
L6 FM VT ADJ
L12, TC4 MW TRACKING ADJ
L12 MW ANT
L13 LW ANT
L13, TC6 LW TRACKING ADJ
AM RF AMP Q9 2SK211GR
Q13 2SC3326B
MW/LW SW
Q24 2SC3326B
D6 KV1260
L14 MW OSC
L17 LW OSC
L14 MW VT ADJ
L17 LW VT ADJ
AM +B SW
DTA114YS Q20
DTA114YS Q21
FM +B SW
L11 CFAZ450
L11 AM IFT ADJ
SFR1 LIGHT ON TUNING LEVEL ADJ
5V REG
9V REG Q22 2SC2001K
Q23 2SC2712 (GR) 9V REG
Q27 2SC1815 (GR)
D13 02CZ6.2Y
PLL SYNTHESIZER IC3 LC7218
X1 7.2MHz
TC5 CLOCK ADJ
IC2 TA7343AP FM MPX DECODER
AF
PHASE DET
DC
VCO 76KHz
1/2
TRIG
STEREO SWITCH
STEREO DECODER
L18 ANTI BIRDIE FLTR
Q7 2SC2712GR AM AF AMP
Q8 2SC2712GR AM AF AMP
FM MONO/MONO SW DTA114YK Q10
OUTPUT AMP Q11
OUTPUT AMP Q12
Q12 2SC1623 J5 X2
L15 L16 COIL 2POLE MPX X2
MUTE 2SC3326B X2 Q15
Q16 MUTE
MUTE Q17 2SC2712 GR
R117 1.2K
CON1
CON2
WH802
PIN902
PIN901
-VFL F2 F1 CLK DATA CE N.C AUTO-H
RMC SD ST/BL K-MUTE SERIAL T-BASE 5V GND
F2 D-GND F1 D-REMOTE I/O SERIAL -VFL(-30V) +VM(+12V) IN-R A-GND IN-L
TO AMP
1/8W MARK PARTS : AXIAL
R, C, D, Q * MARK PARTS : 3216TYPE CHIP
R, C, L NO MARK PARTS : 2125TYPE CHIP
➡ : FM SIGNAL
⇨ : AM SIGNAL
FL901 DISPLAY 9BT-83GK
D912 HZS11AIL
HZ15-3L X2
L904 10UH
L903 10UH
SW 904 909, 912, 913, 916, 917 STATION PRESET
K0 K1 K2 K3
BAND UP DOWN M10 M9 MB M7 M6 M5 SET ST/MONO M4 M3 C/T STB BY M2 M1 SLEEP
D901 ~ 906, 911 1SS177
D911 TUN MODE
A.C
MEMO 10/12
CONTROLLER IC901 UPD75268 CW-029
PBK RESET Q903 2SA1048 (GR)
Q904 2SC2458 (GR) RESET
REMOTE BUFFER Q902 2SC2001K
RU901 GP1U571X
REMOTE SENSOR
CF901 CST4.19MGW
TUNE FREQ PRESET
KHZ MHZ
SLEEP
AM FM AUTO
ON OFF
ONCE EVERY
STEREO MAIN SUB
CD TAPE DAT TUNER REC

## WIRING – 3 (TX – Z7000 Z)

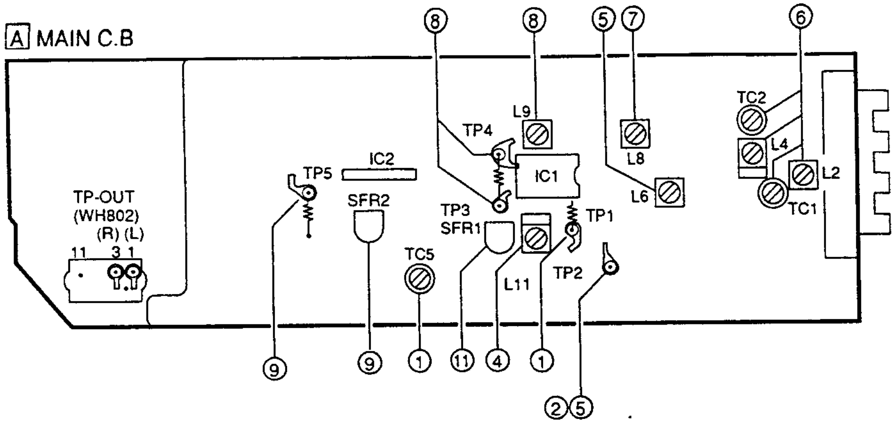

A MAIN C.B
TO AMP
11 9 7 5 3 1
WH802
R781
CON2
CON1
C781
Q27
Q23
Q22
Q13
C110
R99
C111
R82
R123
R122
R121
R782
R94
R97
R59
TP5
R91
Q10
C64
C63
IC2
R110
SFR2
C69
C70
Q17
C66
Q12
Q11
C65
Q16
Q15
L15
L16
TC5
X1
IC3
C87
L19
Q8
C39
C44
L18
C60
SFR1
C38
TP3
C40
C37
TP4
R46
C42
Q7
C30
C36
IC1
L11
TP
R32
C80
Q20
R83
R107
Q18
TP2
C82
Q21
C58
Q24
L17
L14
L12
L13
TC6
Q13
Q6
C55
TC4
R19
L9
CF4
R39
R28
CF5
CF3
C33
R29
Q6
CF2
Q5
L6
C9
C22
TC1
Q1
L2
L1
L3
L5
Q4
Q2
L8
TC3
TC2
CF1
J1
FM 75Ω
MW/LW LOOP
CON1
1 3 5 7 8
TO B FRONT C.B PIN901
CON2
1 3 5 7 8
TO B FRONT C.B PIN902
B FRONT C.B
STATION PRESET
SW917 M1
SW916 M2
SW913 M3
SW912 M4
SW909 M5
SW908 M6
SW907 M7
SW906 M8
SW905 M9
SW904 M10
FROM A MAIN C B CON1
1 3 5 7 8
FROM A MAIN C B CON2
1 3 5 7 8
FL901
PIN901
PIN902
L904
D905
D904
D902
R929
R930
SW911
SW918
R931
SW914
SW910
SW901
SW915
C905
C909
L901
D906
D909
D910
C910
C901
R902
C906
IC901
CF901
RU901
Q902
C902
R921
R920
R904
R806
R907
R908
R909
R917
R918
R919
L902
C915
C916
R932
R934
D912
C913
C911
C912
C907
C908
SW903
SW902
D903
R915
R913
R912
R911
R910
R916
R914
R936
D908
R928
C904
R927
C903
R926
D907
Q904
Q903
R925
R901
R923
R924
FL901 DISPLAY
SW918 SLEEP
SW914 CLOCK/TIMER
SW911 ST/MONO
SW910 SET
SW901 BAND
SW915 STANDBY
SW903 DOWN ▼
SW902 UP ▲
TUNING/TIMER
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

# ADJUSTMENT—1(TX—Z7000H)

## A MAIN C.B



1. Clock Frequency Adjustment
   Settings: · Test point: TP1
   · Adjustment location: TC5
   Method: Set to AM 1602kHz and adjust so that the test point becomes 2052kHz ±0.01kHz.

2. AM VT Check
   Settings: · Test point: TP2 (VT)
   Method: Set to AM 531kHz and check so that the test point becomes 1.1V ±0.20V.

3. AM Tracking Check
   Settings: · Test point: TP-OUT (WH802)
   Method: Set to AM 999kHz and check so that the sensitivity becomes less than 56dB.

4. AM IF Adjustment
   Settings: · Test point: TP-OUT (WH802)
   L11 ········ 450kHz

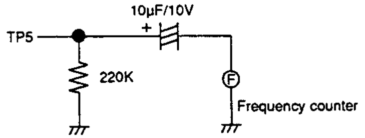
5. FM VT Adjustment
   Settings: · Test point: TP2 (VT)
   · Adjustment location: L6
   Method: Set to FM 108.0MHz and adjust L6 so that the test point becomes 9.0V ±0.05V.

6. FM Tracking Adjustment
   Settings: · Test point: TP-OUT (WH802)
   TC1, 2 ········ 108.0MHz
   L2, 4 ········ 87.5MHz

7. FM IF Adjustment
   Settings: · Test point: TP-OUT (WH802)
   L8 ········ 10.7MHz

8. DC Balance Adjustment
   Settings: · Test point: TP3, 4 TP-OUT (WH802) (Distortion)
   · Adjustment location: L9
   Method: Set to FM 98.0MHz and adjust L9 so that TP3 and TP4 output becomes 0V ±0.02V.
   Next, check so that the distortion becomes less than 0.6%.

9. MPX VCO Adjustment
   Settings: · Test point: TP5
   · MODE SW: STEREO
   · Adjustment location: SFR2
   Method: Connect a capacitor and resitor as below. Set to FM 98.0MHz non modulation and adjust so that the frequency at test point becomes 38kHz ±0.05kHz.



10. Separation Check
    Settings: · Test point: TP-OUT (WH802)
    Method: Set to FM 98.0MHz and check the separation at TP-OUT becomes more than 27dB.

11. Light on tunning LED Adjustment
    Settings: · Adjustment location: SFR1
    · Input level: 18dB
    Method: Set to FM 98.0MHz and adjust TUNNING LED to light on by SFR1. After that, LED goes out by 2dB down.

# PRACTICAL SERVICE FIGURE —1
(TX—Z7000 H)

<FM SECTION>

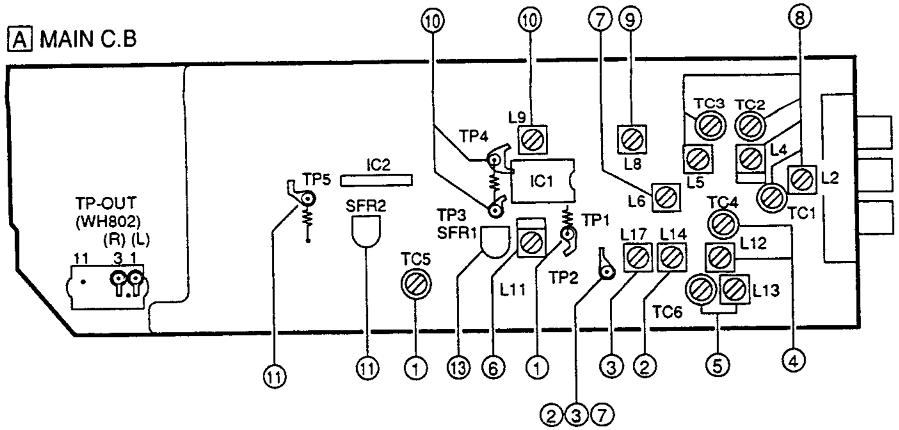
| | |
|---|---|
| IHF Sensitivity: | 4 ± 4dB (at 87.5MHz) |
| (THD 3%) | 2 ± 3dB (at 98.0/108.0MHz) |
| S/N 50dB Quieting Sensitivity: | Less than 34dB<br>(at 87.5/98.0/108.0MHz) |
| Signal to Noise Ratio: | (MONO)<br>More than 72dB (at 98.0MHz)<br>(STEREO)<br>More than 65dB (at 98.0MHz) |
| Distortion: | (MONO)<br>Less than 0.6% (at 98.0MHz)<br>(STEREO)<br>Less than 1.5% (at 98.0MHz) |
| Stereo Separation: | More than 27dB |
| Intermediate Frequency: | 10.7MHz |

<AM SECTION>

| | |
|---|---|
| Sensitivity: | 56 ± 4dB (at 603kHz) |
| (S/N 20dB) | 52 ± 4dB (at 999/1404kHz) |
| Distortion: | Less than 1.5% (at 999kHz) |
| Intermediate Frequency: | 450kHz |

# ADJUSTMENT−2 (TX−Z7000E, Z)

## A MAIN C.B



1. Clock Frequency Adjustment

Settings: · Test point: TP1

· Adjustment location: TC5

Method: Set to MW 1611kHz and adjust so that the test point becomes 2061kHz ±0.01kHz.

2. MW VT Adjustment

Settings: · Test point: TP2 (VT)

· Adjustment location: L14

Method: Set to MW 522kHz and adjust L14 so that the test point becomes 1.0V ±0.05V.

3. LW VT Adjustment

Settings: · Test point: TP2 (VT)

· Adjustment location: L17

Method: Set to LW 144kHz and adjust L17 so that the test point becomes 1.3V ±0.05V.

4. MW Tracking Adjustment

Settings: · Test point: TP-OUT (WH802)

| | |
|---|---|
| L12 | 603kHz |
| TC4 | 1,404kHz |

5. LW Tracking Adjustment

Settings: · Test point: TP-OUT (WH802)

| | |
|---|---|
| L13 | 144kHz |
| TC6 | 290kHz |

6. AM IF Adjustment

Settings: · Test point: TP-OUT (WH802)

| | |
|---|---|
| L11 | 450kHz |

7. FM VT Adjustment

Settings: · Test point: TP2 (VT)

· Adjustment location: L6

Method: Set to FM 108.0MHz and adjust L6 so that the test point becomes 9.0V ±0.05V.

8. FM Tracking Adjustment

Settings: · Test point: TP-OUT (WH802)

| | |
|---|---|
| L2, 4 | 87.5MHz (E) |
| L2, 4, 5 | 87.5MHz (Z) |
| TC1, 2 | 108.0MHz (E) |
| TC1, 2, 3 | 108.0MHz (Z) |

9. FM IF Adjustment

Settings: · Test point: TP-OUT (WH802)

| | |
|---|---|
| L8 | 10.7MHz |

10. DC Balance Adjustment

Settings: · Test point: TP3, 4 TP-OUT (WH802) (Distortion)

· Adjustment location: L9

Method: Set to FM 98.0MHz and adjust L9 so that TP3 and TP4 output becomes 0V ±0.02V.

Next, check so that the distortion becomes less than 0.6%.

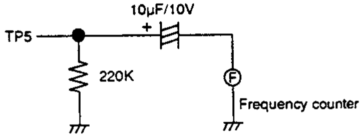
11. MPX VCO Adjustment

Settings: · Test point: TP5

· MODE SW: STEREO

· Adjustment location: SFR2

Method: Connect a capacitor and resitor as below. Set to FM 98.0MHz non modulation and adjust so that the frequency at test point becomes 38kHz ±0.05kHz.



12. Separation Check

Settings: · Test point: TP-OUT (WH802)

Method: Set to FM 98.0MHz and check the separation at TP-OUT becomes more than 27dB.

13. Light on tunning LED Adjustment

Settings: · Adjustment location: SFR1

· Input level: 18dB

Method: Set to FM 98.0MHz and adjust TUNNING LED to light on by SFR1. After that, LED goes out by 2dB down.

# PRACTICAL SERVICE FIGURE−2 (TX−Z7000E, Z)

<FM SECTION>

Usable Sensitivity: 4 ± 4dB (at 87.5MHz) (E)
(THD 3%) 8 ± 4dB (at 87.5MHz) (Z)
2 ± 4dB (at 98.0/108.0MHz) (E)
6 ± 4dB (at 98.0/108.0MHz) (Z)

S/N 50dB Quieting Sensitivity:
Less than 34dB
(at 87.5/98.0/108.0MHz) (E)
Less than 38dB
(at 87.5/98.0/108.0MHz) (Z)

Signal to Noise Ratio: (MONO)
More than 72dB (at 98.0MHz) (E)
More than 68dB (at 98.0MHz) (Z)
(STEREO)
More than 65dB (at 98.0MHz) (E)
More than 60dB (at 98.0MHz) (Z)

Total Harmonic Distortion:
(MONO)
Less than 0.6% (at 98.0MHz)
(STEREO)
Less than 1.5% (at 98.0MHz)

Stereo Separation: More than 27dB

Intermediate Frequency:
10.7MHz

<MW SECTION>

Sensitivity: 56 ± 4dB (at 603kHz)
(S/N 20dB) 52 ± 4dB (at 999/1404kHz)

Total Harmonic Distortion:
Less than 1.5% (at 999kHz)

Intermediate Frequency:
450kHz

<LW SECTION>

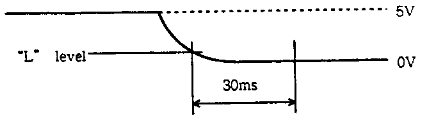
Sensitivity: 63 ± 5dB (at 144kHz)
(S/N 20dB) 60 ± 5dB (at 198/290kHz)

Total Harmonic Distortion:
Less than 1.2% (at 198 kHz)

Intermediate Frequency:
450kHz

# IC DESCRIPTION (TX-Z7000)

## IC, μ PD75268CW-029

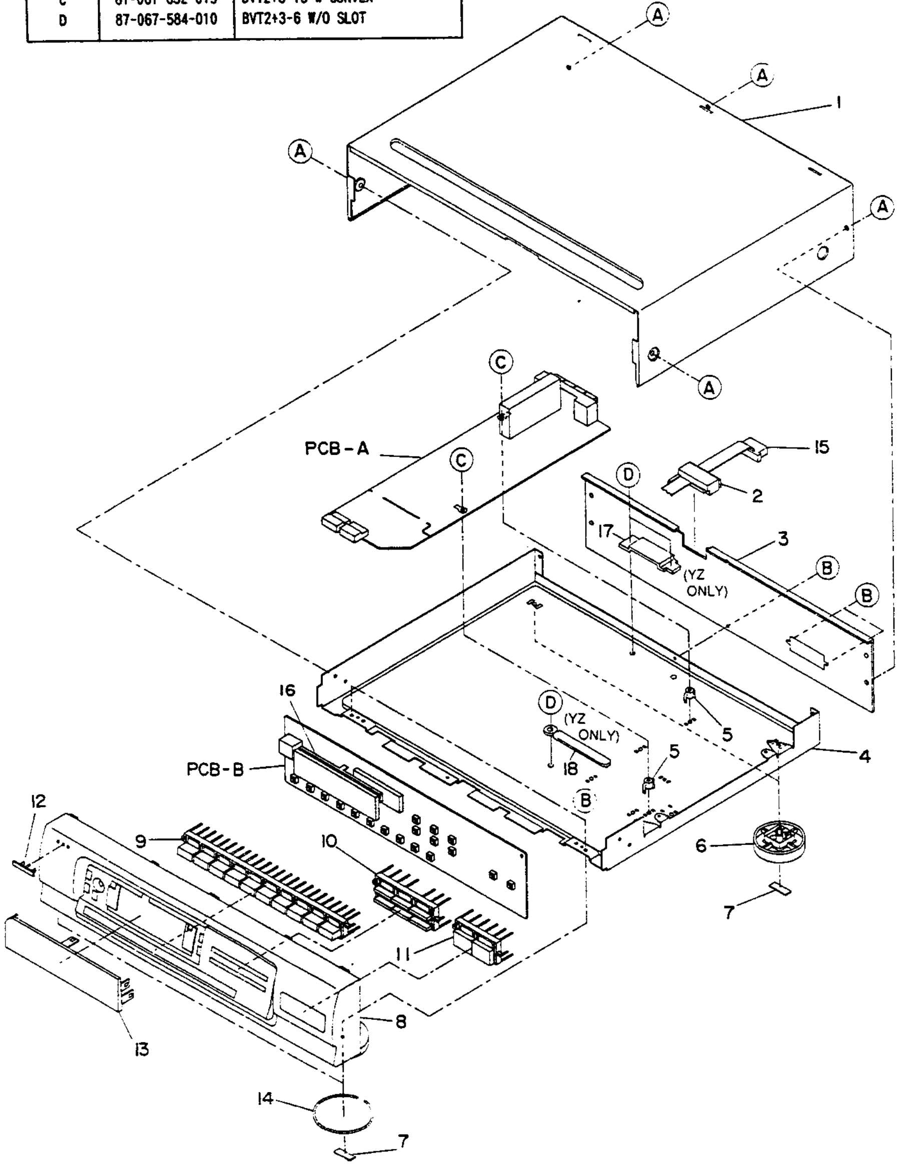
| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1~4 | Sd~Sg | O | FL display segment signal outputs, key scan signal outputs. Active "H" |
| 5 | $\overline{\text{PBK}}$ | I | Power failure detection input. When "L" level continues for 30 ms or more, a power failure is detected (the unit enters the backup mode).<br><br> |
| 6 | ——— | – | Not used (connected to ground). |
| 7 | AUTO-L | O | When an FM broadcast is received, this pin outputs a signal depending on the AUTO condition selected by the MODE key.<br>Active "L" when the AUTO indicator lights.<br>• Even if the AUTO indicator changes when the frequency is being set during timer programming, the output follows the condition currently received. |
| 8 | ——— | – | Not used (connected to ground). |
| 9 | REMOCON | I | Serial data input for remote control. Active "H" (the rise is detected). |
| 10 | ——— | – | Not used (connected to ground). |
| 11 | ——— | – | Not used (connected to ground). |
| 12 | POW SW | I/O | Power control input port. The power is turned on and off a alternately each time the power switch of the amplifier is pressed. |
| 13 | B0 | I | These input pins select the frequency range, etc. with the 3 bits depending on the destination of the units. |
| 14 | B2 | | |
| 15 | B1 | | |
| 16 | $\overline{\text{SD}}$ | I | Input to stop auto scanning. Active "L".<br>• The input is not accepted during power off.<br>• The input cause "TUNE" to light.<br>• Searches for SD signals every 5 ms during auto scanning. When 4 "L" pulses are conuted, sacnning will stop.<br>• SD is not detected during manual tuning. |
| 17 | $\overline{\text{STEREO}}$ | I | Input which causes the $\overline{\text{STEREO}}$ indicator to light. Active "L".<br>• This input is not accepted during power off. |
| 18 | $\overline{\text{K·MUTE}}$ | O | Outputs a muting signal when a key is operated. |
| 19 | $\overline{\text{SER I/O}}$ | I/O | 8-bit serial data input/output. |
| 20 | T-BASE | I | Receives 8Hz pulses from the PLL (LC7218) as a clock signal timing. |
| 21~24 | KO~K3 | I | Key matrix inputs (K2 and K3 are not used and connected to ground). |
| 25 | TEST1 | I | Test mode setting inputs. |
| 26 | TEST2 | | |
| 27 | TEST3 | | |
| 28 | AC CLK | I | Receives the commercial power frequency (the AC level is 5V) as a reference signal for the clock.<br>Not used (connected to ground). |
| 29 | ——— | – | Not used (not connected). |
| 30 | X1 | – | A ceramic oscillator which generates the main system clock signal (4.19MHz) is connected. |
| 31 | X2 | | |
| 32 | GND | – | Ground pin. |
| 33 | XT1 | – | Not used (connected to ground). |
| 34 | XT2 | | Not used (not connected). |
| 35 | POW ON | – | Not used (not connected). Goes "H"during power on and "L"during power off. |
| 36 | CE | O | Output ports which transmit serial data to the PLL (LC7218). Active "H". |
| 37 | DATA | | |
| 38 | CLK | | |
| 39 | $\overline{\text{RESET}}$ | I | System reset input. When the TUNER MODE and BAND switches are pressed and held for 1 second, the clock and preset stations are reset. |
| 40~48 | D1~D9 | O | FL display digit outputs. |
| 49 | ——— | – | Not used (not connected). |
| 50 | Sn | O | FL display segment outputs. |
| 51 | Sm | | |
| 52 | Sℓ | | |
| 53 | Sk | | |
| 54 | ——— | – | Not used (not connected). |
| 55 | ——— | | |
| 56 | V LOAD | I | Supplies power (-25V) to the output buffer of the FL display driver. |
| 57 | V PRE | I | Connected to ground. |
| 58 | Sj | O | FL display segment outputs. |
| 59 | Si | | |
| 60 | Sh | | |
| 61 | Sa | | |
| 62 | Sb | | |
| 63 | Sc | | |
| 64 | VDD | – | +5V power terminal. |

## IC, LC7218

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1<br>24 | X IN<br>X OUT | – | Clock oscillator connection pins. A 7.2MHz crystal oscillator is connected. |
| 2<br>3<br>4 | CE<br>DATA<br>CLK | I | When a key is operated, signals are transferred from the CPU. Active "H". |
| 5<br>~<br>8 | ——— | – | Unused (Not connected). |
| 9 | T-BASE | O | Outputs an 8Hz signal. Transfers it to the CPU as a time base clock signal. |
| 10 | ——— | – | Unused (Not connected). |
| 11 | ——— | O | Unused (Not connected). |
| 12 | AUTO-H | – | Outputs "H" when FM stereo switching is set to AUTO. |
| 13 | MW (AM) -L | O | Outputs "L" when an MW (AM) broadcast is received. |
| 14<br>15<br>16 | ——— | – | Unused (Not connected). |
| 17 | FM-L | O | Outputs "L" when an FM broadcast is received. |
| 18 | AM-IN | I | AM local oscillation input. |
| 19 | FM-IN | I | FM local oscillation input. |
| 20 | VDD | – | Power supply pin. 5V ± 10% |
| 21 | $EO_1$ | O | PLL error output. |
| 22 | $EO_2$ | – | Unused (Not connected). |
| 23 | VSS | – | Ground pin. |

## EXPLODED VIEW (TX – Z7000)

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| A | 87-067-641-019 | UTT2+3-8 W/O SLOT BLK |
| B | 87-067-660-019 | BVT2+3-8 W/O SLOT BLK |
| C | 87-067-632-019 | BVT2+3-15 W CONVEX |
| D | 87-067-584-010 | BVT2+3-6 W/O SLOT |



## MECHANICAL PARTS LIST (TX – Z7000)

DESCRIPTIONで判断できない物は"REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| PART NO. CHANGED TO | REF. NO. | PART NO. | DESCRIPTION | COMMON MODEL | Q.TY |
|---|---|---|---|---|---|
| | 1 | ★82-VT1-009-119 | CAB, STEEL | ※ | 1 |
| | 2 | ★89-VT5-202-010 | BUSHING, CORD | | 1 |
| | 3 | ★82-VT1-010-019 | PANEL, REAR YHJBN (YH) | ※ | 1 |
| | 3 | ★82-VT1-016-019 | PANEL, REAR YLHJBN (YLH) | ※ | 1 |
| | 3 | ★82-VT1-012-019 | PANEL, REAR YEBNE (YE) | ※ | 1 |
| | 3 | ★82-VT1-013-019 | PANEL, REAR YZBNE (YZ) | ※ | 1 |
| | 4 | --- | CHASSIS, MAIN | | 1 |
| | 5 | --- | HOLDER, PCB | | 2 |
| | 6 | ★81-VX1-012-019 | FOOT, REAR | | 2 |
| | 7 | ★82-VW2-211-019 | FELT, 20 – 7.5 – 2 | | 4 |
| | 8 | ★82-VT1-007-119 | CAB, FR EX | ※ | 1 |
| | 9 | ★82-VT1-002-119 | KEY, 10 | ※ | 1 |
| | 10 | ★82-VT1-003-019 | KEY, BAND | ※ | 1 |
| | 11 | ★82-VT1-004-019 | KEY, UP/DOWN | ※ | 1 |
| | 12 | ★81-DS1-011-019 | BADGE, AIWA N | | 1 |
| | 13 | ★82-VT1-005-019 | WINDOW, TU | ※ | 1 |
| | 14 | ★81-VW1-015-019 | RING FOOT | | 2 |
| | 15 | ★82-VT1-605-010 | CORD, FG 11P | ※ | 1 |
| | 16 | ★81-690-201-110 | GUIDE, FL | | 1 |
| | 17 | ★81-VX1-210-110 | HLDR, WIRE G (YZ) | | 1 |
| | 18 | ★87-038-039-010 | WIRE, BINDER (YZ) | | 1 |

MODEL NO.

# GE－Z7000

## CAUTIONS WHEN SERVICING (GE－Z7000)

Model GE－Z7000 does not have a power supply circuit and a control circuit.
When servicing the GE－Z7000, connect it to the MX－Z7000M.

## ELECTRICAL MAIN PARTS LIST (GE－Z7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| IC | | | |
| | 82-VU1-631-010 | | IC, LC65204A-4B13 |
| | 87-002-950-019 | | IC, BA3826S |
| | 87-001-637-089 | | IC, NJM78ML05A |
| TRANSISTOR | | | |
| | 89-320-011-089 | | TR, 2SC2001K |
| | 87-026-269-089 | | TR, DTA114ES |
| | 87-026-245-089 | | TR, DTC114ES |
| | 89-333-284-089 | | TR, 2SC3328 Y |
| | 89-110-155-089 | | TR, 2SA1015GR |
| DIODE | | | |
| | 87-020-123-089 | | DIODE DS446-AT (TA) |
| | 87-027-323-089 | | ZENER, HZ22-2L |
| | 87-027-347-089 | | ZENER, HZ182LT2 |
| | 87-020-691-089 | | DIODE, 1SS132 T-72 |
| MAIN C. B | | | |
| C20 | 87-010-405-089 | | CAP, E 10-50 SME |
| C21 | 87-018-209-089 | | CAP, TC-U 0.1-50 F |
| C22 | 87-010-075-089 | | CAP, E 10-16 5L |
| C23 | 87-010-408-089 | | CAP, E 47-50 SME |
| C24 | 87-014-061-089 | | CAP, PP 1500P-100 J |
| C25 | 87-015-699-089 | | CAP, E 10-50 7L |
| C26 | 87-018-134-089 | | CAP, TC-U 0.01-16 Y |
| C27 | 87-010-404-089 | | CAP, E 4.7-50 SME |
| C28 | 87-010-405-089 | | CAP, E 10-50 SME |
| C30 | 87-010-071-089 | | CAP, E 1-50 5L |
| C31 | 87-018-131-089 | | CAP, TC-U 1000P-50 B |
| C32 | 87-018-131-089 | | CAP, TC-U 1000P-50 B |
| C33 | 87-018-134-089 | | CAP, TC-U 0.01-16 Y |
| C34 | 87-018-134-089 | | CAP, TC-U 0.01-16 Y |
| C35 | 87-018-134-089 | | CAP, TC-U 0.01-16 Y |
| C36 | 87-018-134-089 | | CAP, TC-U 0.01-16 Y |
| C37 | 87-018-127-089 | | CAP, TC-U 470P-50 B |
| C38 | 87-018-127-089 | | CAP, TC-U 470P-50 B |
| C43 | 87-014-123-089 | | CAP, PP 0.068-100 G |
| C44 | 87-010-101-089 | | CAP, E 220-16 SME |
| FL1 | 82-VU1-630-010 | | FL, BJ126GK |
| FL2 | 82-VU1-630-010 | | FL, BJ126GK |
| L1 | 87-003-136-089 | | COIL, 100UH |
| L3 | 87-003-147-089 | | COIL, 22UH |
| R82 | 87-022-473-059 | | RES, NF 1.8-1/4WJ |

| REF. NO | PART NO. | カンリ NO. | DESCRIPTION |
|---|---|---|---|
| R83 | 87-022-473-059 | | RES, NF 1.8-1/4WJ |
| S1 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S1 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S2 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S2 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S3 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S3 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S4 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S4 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S5 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S5 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S6 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S6 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S7 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S7 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S8 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S8 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S9 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S9 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S10 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S10 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S11 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S11 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S12 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S12 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S13 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S13 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S14 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S14 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S15 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S15 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S16 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S16 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S17 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S17 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S18 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S18 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S19 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S19 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| S20 | 87-036-215-089 | | SW, TACT EVQ21404M(YJ) |
| S20 | 87-036-259-088 | | SW, TACT SKHVBB(Y) |
| T1 | 82-VU1-615-019 | | COIL, FL |
| WH1 | 82-VU1-632-019 | | CORD, 9P FG 55CM |
| X1 | 89-MX1-704-089 | | CERA LOCK(MU)3.9MHZ |
| X2 | 89-MX1-704-089 | | CERA LOCK(MU)3.9MHZ |

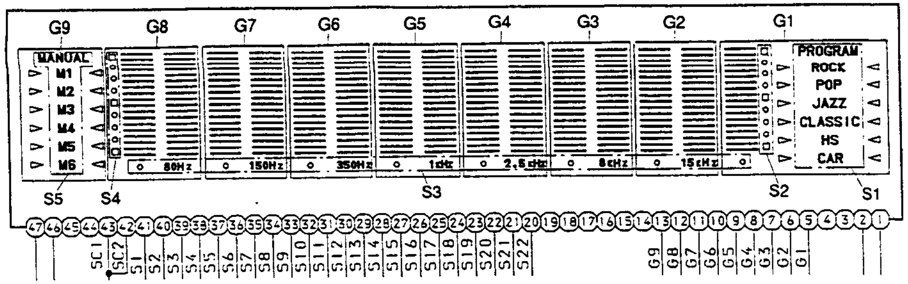
## IC DESCRIPTION (GE－Z7000)

### IC, LC65204A－4B13

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | $\overline{\text{S1}}$ | O | FL display segment output. |
| 2 | SC1/2 | O | FL display control. |
| 3 | A | O | BA3826S output signal control. |
| 4 | B | O | |
| 5 | C | O | |
| 6 | AD5 | I | Sound ditect input. (DC level) |
| 7 | AD6 | I | A/D input for key input. |
| 8 | AD7 | I | |
| 9 | AV+ | － | Connected to +5V line. |
| 10 | AV－ | － | GND. |
| 11 | VSS | － | GND. |
| 12 | OS1 | － | X'tal terminal. (3.9MHz) |
| 13 | OS2 | － | |
| 14 | VDD | － | Power supply. (+5V) |
| 15 | $\overline{\text{RST}}$ | I | Reset signal input. |
| 16 | X1 | I | Connected to +5V line. |
| 17 | X2 | － | Not used. (not connected) |
| 18 | TEST | I | Connected to GND. |
| 19 | SI | I | Data input from CXP82324. |
| 20 | SO | O | Data output to CXP82324. |
| 21 | CLK | I | Clock signal input from CXP82324. |
| 22 | $\overline{\text{CE}}$ | I | Strobe signal input from CXP82324. |
| 23<br>~<br>26 | PC0<br>~<br>PC3 | O | FL display grid drive signals. |
| 27<br>~<br>30 | PD0<br>~<br>PD3 | O | FL display grid drive signals. |
| 31<br>~<br>34 | PK0<br>~<br>PK3 | O | FL display segment outputs. |
| 35<br>~<br>38 | PL0<br>~<br>PL3 | O | |
| 39<br>~<br>42 | PM0<br>~<br>PM3 | O | |
| 43<br>~<br>46 | PN0<br>~<br>PN3 | O | |
| 47<br>~<br>50 | PO0<br>~<br>PO3 | O | |
| 51 | PP0 | O | |
| 52 | VP | I | FL display power supply. (－30V) |

## FL, BJ126GK

### GRID ASSIGNMENT


G9
G8
G7
G6
G5
G4
G3
G2
G1
MANUAL
M1
M2
M3
M4
M5
M6
PROGRAM
ROCK
POP
JAZZ
CLASSIC
HS
CAR
80Hz
150Hz
350Hz
1kHz
2.5kHz
6kHz
15kHz
S5
S4
S3
S2
S1
SC1
SC2
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
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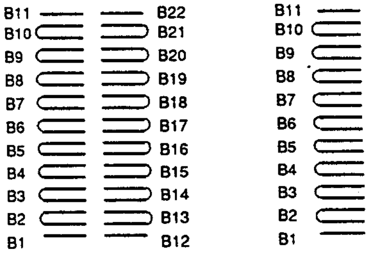
S17
S18
S19
S20
S21
S22
G9
G8
G7
G6
G5
G4
G3
G2
G1


B11
B10
B9
B8
B7
B6
B5
B4
B3
B2
B1
B22
B21
B20
B19
B18
B17
B16
B15
B14
B13
B12
B11
B10
B9
B8
B7
B6
B5
B4
B3
B2
B1

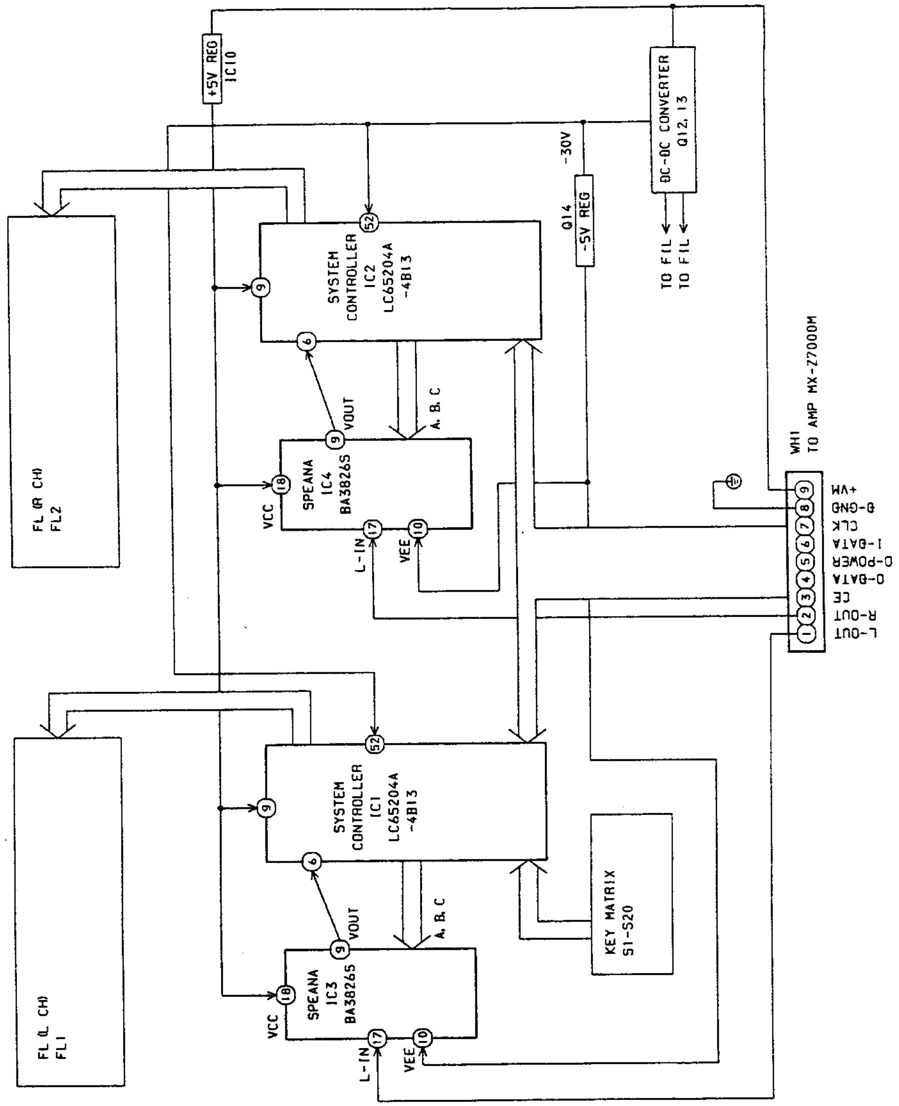
(G8~G2)

(G1)

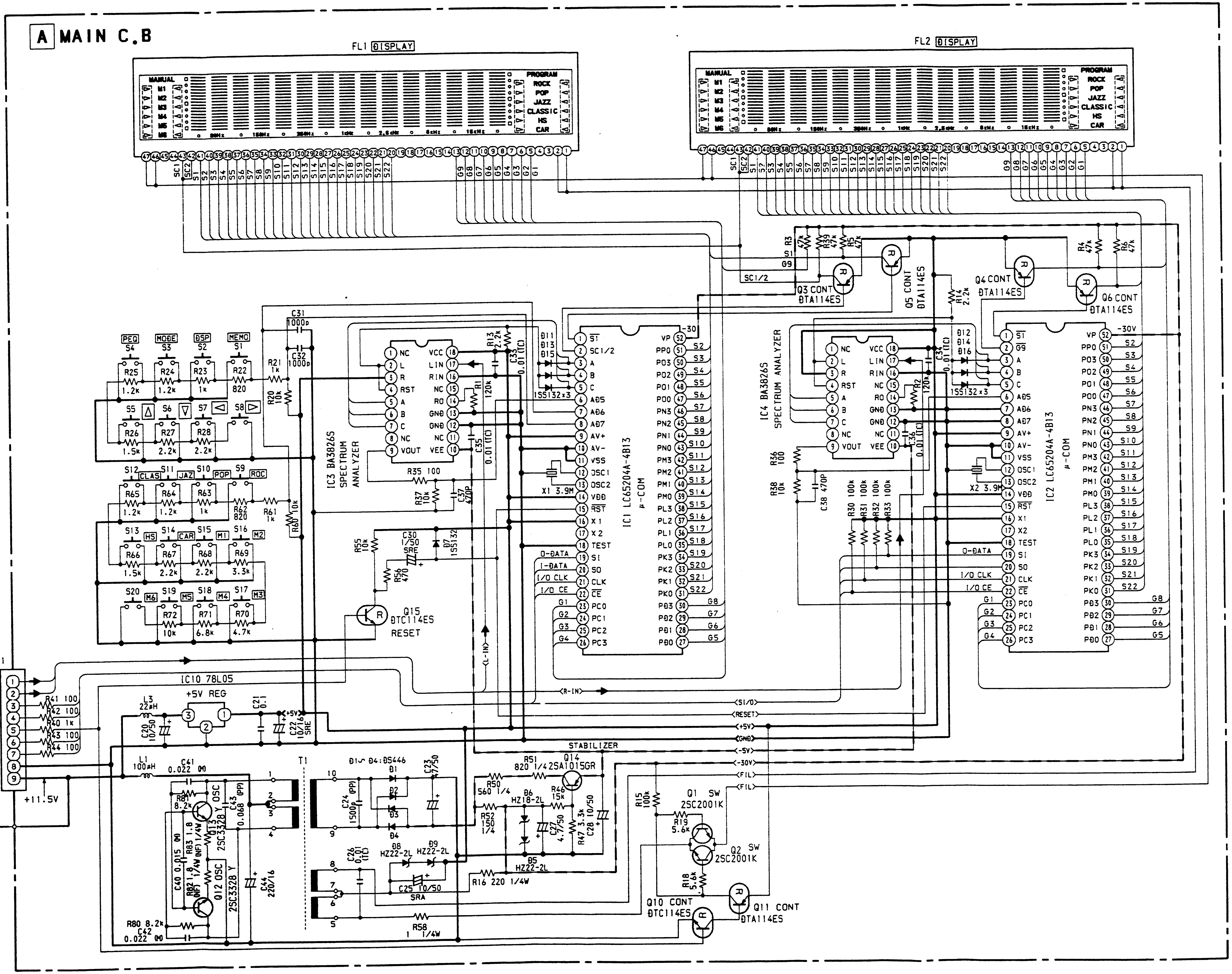
### ANODE CONNECTION

| | G9 | G8 | G7 | G6 | G5 | G4 | G3 | G2 | G1 |
|---|---|---|---|---|---|---|---|---|---|
| P1 | ▷ (M6) ◁ | B1 | B1 | B1 | B1 | B1 | B1 | B1 | B1 |
| P2 | ▷ (M5) ◁ | B2 | B2 | B2 | B2 | B2 | B2 | B2 | B2 |
| P3 | ▷ (M4) ◁ | B3 | B3 | B3 | B3 | B3 | B3 | B3 | B3 |
| P4 | ▷ (M3) ◁ | B4 | B4 | B4 | B4 | B4 | B4 | B4 | B4 |
| P5 | ▷ (M2) ◁ | B5 | B5 | B5 | B5 | B5 | B5 | B5 | B5 |
| P6 | ▷ (M1) ◁ | B6 | B6 | B6 | B6 | B6 | B6 | B6 | B6 |
| P7 | S5 | B7 | B7 | B7 | B7 | B7 | B7 | B7 | B7 |
| P8 | — | B8 | B8 | B8 | B8 | B8 | B8 | B8 | B8 |
| P9 | — | B9 | B9 | B9 | B9 | B9 | B9 | B9 | B9 |
| P10 | — | B10 | B10 | B10 | B10 | B10 | B10 | B10 | B10 |
| P11 | — | B11 | B11 | B11 | B11 | B11 | B11 | B11 | B11 |
| P12 | — | B12 | B12 | B12 | B12 | B12 | B12 | B12 | ▷ (CAR) ◁ |
| P13 | — | B13 | B13 | B13 | B13 | B13 | B13 | B13 | ▷ (HS) ◁ |
| P14 | — | B14 | B14 | B14 | B14 | B14 | B14 | B14 | ▷(CLASSIC)◁ |
| P15 | — | B15 | B15 | B15 | B15 | B15 | B15 | B15 | ▷ (JAZZ) ◁ |
| P16 | — | B16 | B16 | B16 | B16 | B16 | B16 | B16 | ▷ (POP) ◁ |
| P17 | — | B17 | B17 | B17 | B17 | B17 | B17 | B17 | ▷(ROCK)◁ |
| P18 | — | B18 | B18 | B18 | B18 | B18 | B18 | B18 | S1 |
| P19 | — | B19 | B19 | B19 | B19 | B19 | B19 | B19 | — |
| P20 | — | B20 | B20 | B20 | B20 | B20 | B20 | B20 | — |
| P21 | — | B21 | B21 | B21 | B21 | B21 | B21 | B21 | — |
| P22 | — | B22 | B22 | B22 | B22 | B22 | B22 | B22 | — |
| P23 | | S4 | — | — | — | — | — | — | S2 |
| P24 | — | S3 | S3 | S3 | S3 | S3 | S3 | S3 | — |

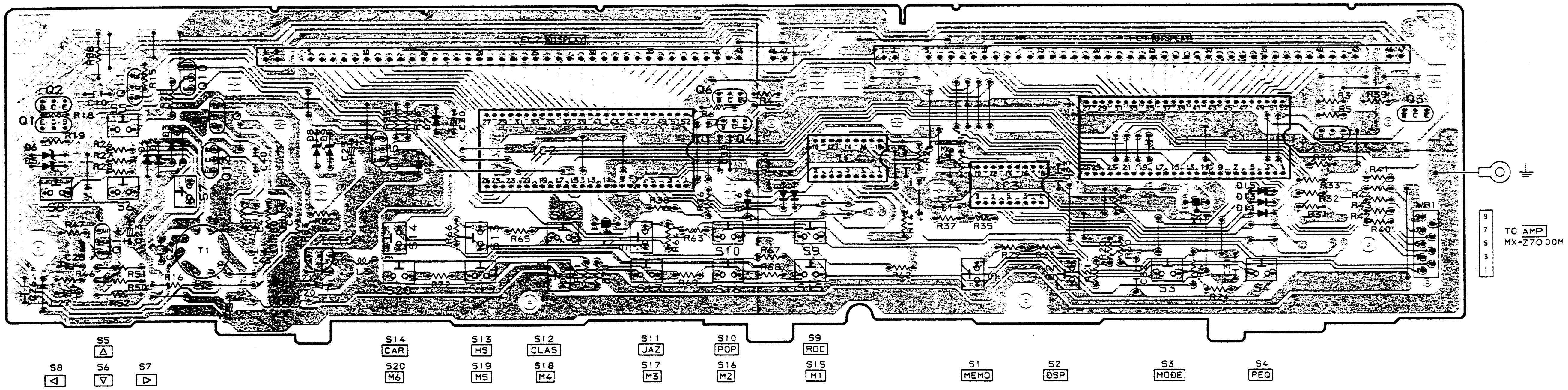
## BLOCK DIAGRAM (GE—Z7000)


+5V REG
IC10
DC-DC CONVERTER
Q12, 13
-30V
Q14
-5V REG
TO FIL
TO FIL
SYSTEM CONTROLLER
IC2
LC65204A
-4B13
52
9
6
VOUT
A, B, C
SPEANA
IC4
BA3826S
VCC
18
9
17
10
L-IN
VEE
FL (R CH)
FL2
WH1
TO AMP MX-Z7000M
9 HV+
8 GND-G
7 CLK
6 I-DATA
5 O-POWER
4 O-DATA
3 CE
2 R-OUT
1 L-OUT
SYSTEM CONTROLLER
IC1
LC65204A
-4B13
52
9
6
VOUT
A, B, C
KEY MATRIX
S1-S20
SPEANA
IC3
BA3826S
VCC
18
9
17
10
L-IN
VEE
FL (L CH)
FL1

# SCHEMATIC DIAGRAM (GE—Z7000)


A MAIN C.B
FL1 DISPLAY
FL2 DISPLAY
MANUAL
M1
M2
M3
M4
M5
M6
PROGRAM
ROCK
POP
JAZZ
CLASSIC
HS
CAR
SC1
SC2
G9
G8
G7
G6
G5
G4
G3
G2
G1
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22
R3 47k
R39 47k
R5 47k
R4 47k
R6 47k
SC1/2
Q3 CONT
DTA114ES
Q5 CONT
DTA114ES
Q4 CONT
DTA114ES
Q6 CONT
DTA114ES
R14 2.2k
C31 1000p
C32 1000p
R21 1k
R20 10k
PEQ S4
MODE S3
DSP S2
MEMO S1
R25 1.2k
R24 1.2k
R23 1k
R22 820
S5
S6
S7
S8
R26 1.5k
R27 2.2k
R28 2.2k
S12 CLAS
S11 JAZ
S10 POP
S9 ROC
R65 1.2k
R64 1.2k
R63 1k
R62 820
R61 1k
R60 10k
S13 HS
S14 CAR
S15 M1
S16 M2
R66 1.5k
R67 2.2k
R68 2.2k
R69 3.3k
S20 M6
S19 M5
S18 M4
S17 M3
R72 10k
R71 6.8k
R70 4.7k
IC3 BA3826S SPECTRUM ANALYZER
IC4 BA3826S SPECTRUM ANALYZER
NC
L
R
RST
A
B
C
VOUT
VCC
LIN
RIN
RO
GND
VEE
R13 2.2k
C33 0.01 (TC)
R1 120k
R2 120k
C34 0.01 (TC)
C35 0.01 (TC)
C36 0.01 (TC)
R35 100
R37 10k
C37 470P
R36 100
R38 10k
C38 470P
R30 100k
R31 100k
R32 100k
R33 100k
D11
D13
D15
D12
D14
D16
1SS132×3
IC1 LC65204A-4B13 μ-COM
IC2 LC65204A-4B13 μ-COM
S1
SC1/2
A
B
C
AD5
AD6
AD7
AV+
AV-
VSS
OSC1
OSC2
VDD
RST
X1
X2
TEST
SI
SO
CLK
CE
PC0
PC1
PC2
PC3
VP
PP0
PO3
PO2
PO1
PO0
PN3
PN2
PN1
PN0
PM3
PM2
PM1
PM0
PL3
PL2
PL1
PL0
PK3
PK2
PK1
PK0
PB3
PB2
PB1
PB0
-30
-30V
X1 3.9M
X2 3.9M
O-DATA
I-DATA
I/O CLK
I/O CE
R55 10k
C30 1/50 SRE
D7 1SS132
R56 470
Q15 DTC114ES RESET
⟨L-IN⟩
⟨R-IN⟩
⟨SI/O⟩
⟨RESET⟩
⟨+5V⟩
⟨GND⟩
⟨-5V⟩
⟨-30V⟩
⟨FIL⟩
⟨FIL⟩
WH1
TO AMP MX-Z7000M
L-OUT
R-OUT
CE
O-DATA
O-POWER
I-DATA
CLK
D-GND
+VM
R41 100
R42 100
R40 1k
R43 100
R44 100
+11.5V
IC10 78L05 +5V REG
L3 22μH
C20 10/50
C21 0.1
C22 10/16 SRE
+5V
L1 100μH
C41 0.022 (M)
R81 8.2k
Q13 2SC3328 Y OSC
C43 0.068 (PP)
C40 0.015 (M)
R83 1.8 1/4W (NF)
R82 1.8 1/4W (NF)
Q12 OSC 2SC3328 Y
C44 220/16
R80 8.2k
C42 0.022 (M)
T1
D1∼D4: DS446
D1
D2
D3
D4
C24 1500p (PP)
C23 47/50
C26 0.01 (TC)
D8 HZ22-2L
D9 HZ22-2L
C25 10/50 SRA
R58 1 1/4W
R16 220 1/4W
STABILIZER
R51 820 1/4
Q14 2SA1015GR
R50 560 1/4
R52 150 1/4
D6 HZ18-2L
R46 15k
C27 4.7/50
R47 3.3k
C28 10/50
D5 HZ22-2L
R15 100k
Q1 SW 2SC2001K
R19 5.6k
Q2 SW 2SC2001K
R18 5.6k
Q10 CONT DTC114ES
Q11 CONT DTA114ES

## A MAIN C.B

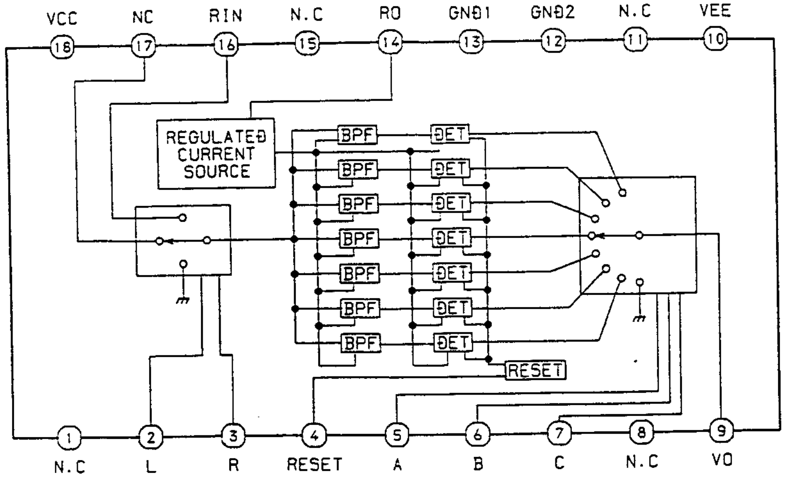

FL2 DISPLAY
FL1 DISPLAY
TO AMP
MX-Z7000M
S5 △
S8 ◁
S6 ▽
S7 ▷
S14 CAR
S20 M6
S13 HS
S19 M5
S12 CLAS
S18 M4
S11 JAZ
S17 M3
S10 POP
S16 M2
S9 ROC
S15 M1
S1 MEMO
S2 DSP
S3 MODE
S4 PEQ

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

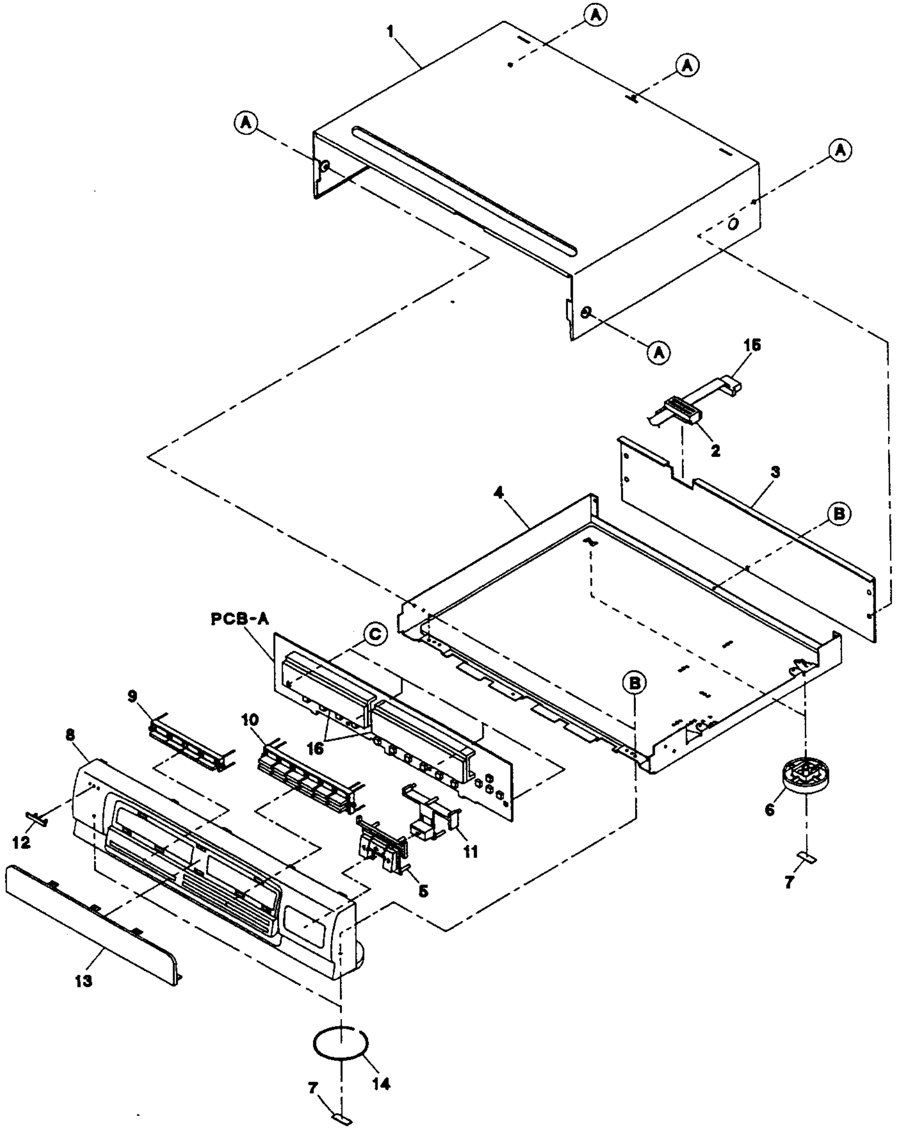
# IC BLOCK DIAGRAM (GE–Z7000)

## IC, BA3826S


VCC
NC
RIN
N.C
RO
GND1
GND2
N.C
VEE
18
17
16
15
14
13
12
11
10
REGULATED CURRENT SOURCE
BPF
DET
RESET
1
2
3
4
5
6
7
8
9
N.C
L
R
RESET
A
B
C
N.C
VO

# EXPLODED VIEW (GE–Z7000)

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| A | 87-067-641-019 | UTT2+3-8 W/O SLOT BLK |
| B | 87-067-660-019 | BVT2+3-8 W/O SLOT BLK |
| C | 87-067-703-019 | BVT2+3-10 W/O SLOT |


1
A
A
A
A
A
15
2
3
4
B
PCB-A
C
B
9
10
16
8
11
12
5
6
7
13
14
7

# MECHANICAL PARTS LIST (GE – Z7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| PART NO. CHANGED TO | REF. NO. | PART NO. | DESCRIPTION | COMMON MODEL | Q.TY |
|---|---|---|---|---|---|
| | 1 | ★82-VT1-009-119 | CAB, STEEL | | 1 |
| | 2 | ★89-VT5-202-010 | BUSHING, CORD | | 1 |
| | 3 | ★82-VU1-012-019 | PANEL, REAR YBNE (Y) | ※ | 1 |
| | 3 | ★82-VU1-014-019 | PANEL, REAR YJBN (YJ) | ※ | 1 |
| | 4 | --- | CHAS, MAIN | | 1 |
| | 5 | ★82-VU1-004-019 | KEY, UP | ※ | 1 |
| | 6 | ★81-VX1-012-019 | FOOT, REAR | | 2 |
| | 7 | ★82-VW2-211-019 | FELT 20 – 7.5 – 2 | | 4 |
| | 8 | ★82-VU1-001-019 | CAB, FR | ※ | 1 |
| | 9 | ★82-VU1-002-019 | KEY, 1 | ※ | 1 |
| | 10 | ★82-VU1-003-019 | KEY, 2 | ※ | 1 |
| | 11 | ★82-VU1-005-019 | KEY, DOWN | ※ | 1 |
| | 12 | ★81-DS1-011-019 | BADGE, AIWA N | | 1 |
| | 13 | ★82-VU1-006-019 | WINDOW | ※ | 1 |
| | 14 | ★81-VW1-015-019 | RING, FRONT | | 2 |
| | 15 | ★82-VU1-632-019 | CORD, 9P FG55CM | ※ | 1 |
| | 16 | ★81-DS2-204-219 | GUIDE FL | | 1 |

MODEL NO.

# SX – Z7000

## ■ SPEAKER LIST (SX – Z7000 )

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 82-VS1-003-010 | PANEL W |
| 2 | 82-VS1-004-010 | PANEL T ASSY |
| 3 | 82-VS1-010-010 | GRILL FRAME ASSY |
| 4 | 82-VS2-602-010 | SPEAKER WOOFER |
| 5 | 82-VS1-603-010 | SPEAKER TWEETER |
| 6 | 81-672-612-010 | SPEAKER CORD (H,HE,HR) |
| 7 | 82-VS2-025-010 | SPEAKER CORD (E,K,Z) |

## REFERENCE NAME LIST

### ELECTRICAL SECTION

| DESCRIPTION | REFERENCE NAME |
|---|---|
| ANT | ANTENNAS |
| C- | CHIP |
| C-CAP | CAP, CHIP |
| C-CAP TN | CAP, CHIP TANTALUM |
| C-COIL | COIL, CHIP |
| C-DI | DIODE, CHIP |
| C-DIODE | DIODE, CHIP |
| C-FET | FET, CHIP |
| C-FOTR | FILTER, CHIP |
| C-JACK | JACK, CHIP |
| C-LED | LED, CHIP |
| C-RES | RES, CHIP |
| C-SFR | SFR, CHIP |
| C-SLIDE SW | SLIDE SWITCH, CHIP |
| C-SW | SWITCH, CHIP |
| C-TR | TRANSISTOR, CHIP |
| C-VR | VOLUME, CHIP |
| C-ZENER | ZENER, CHIP |
| CAP, CER | CAP, CERA-SOL |
| CAP, E | CAP, ELECT |
| CAP, M/F | CAP, FILM |
| CAP, TC | CAP, CERA-SOL |
| CAP, TC-U | CAP, CERA-SOL SS |
| CAP, TN | CAP, TANTALUM |
| CERA FIL | FILTER, CERAMIC |
| CF | FILTER, CERAMIC |
| DL | DELAY LINE |
| E/CAP | CAP, ELECT |
| FILT | FILTER |
| FLTR | FILTER |
| FUSE RES | RES, FUSE |
| MOT | MOTOR |
| P-DIODE | PHOTO DIODE |
| P-SNSR | PHOTO SENSER |
| P-TR | PHOTO TRANSISTOR |
| POLY VARI | VARIABLE CAPACITOR |
| PPCAP | CAP, PP |
| PT | POWER TRANSFORMER |
| PTR, RES | PTR, MELF |
| RC | REMOTE CONTROLLER |
| RES NF | RES, NON-FLAMMABLE |
| RESO | RESONATOR |
| SHLD | SHIELD |
| SOL | SOLENOID |
| SPKR | SPEAKER |
| SW, LVR | SWITCH, LEVER |
| SW, RTRY | SWITCH, ROTARY |
| SW, SL | SWITCH, SLIDE |
| TC CAP | CAP, CERA-SOL |
| THMS | THERMISTOR |
| TR | TRANSISTOR |
| TRIMMER | CAP, TRIMMER |
| TUN-CAP | VARIABLE CAPACITOR |
| VIB, CER | RESONATOR, CERAMIC |
| VIB, XTAL | RESONATOR, CRYSTAL |
| VR | VOLUME |
| ZENER | DIODE, ZENER |
| ｻｰｼﾞｻﾌﾟﾚｯｻ | SERGESUPPRESSOR |
| ｾﾗｺﾝ | CAP, CERA |

### MECHANICAL SECTION

| DESCRIPTION | REFERENCE NAME |
|---|---|
| ADHESHIVE | SHEET ADHESHIVE |
| AZ | AZIMUTH |
| BAR-ANT | BAR-ANTENNA |
| BAT | BATTERY |
| BAT, CONTACT ASSY | BATTERY CONTACT ASSY |
| BATT | BATTERY |
| BRG | BEARING |
| BTN | BUTTON |
| CAB | CABINET |
| CASS | CASSETTE |
| CHAS | CHASSIS |
| CLR | COLLAR |
| CONT | CONTROL |
| CRSR | CURSOR |
| CU | CUSHION |
| CUSH | CUSHION |
| DIR | DIRECTION |
| DUBB | DUBBING |
| FL | FRONT LOADING |
| FLY-WHL | FLYWHEEL |
| FR | FRONT |
| FUN | FUNCTION |
| G-CU | G-CUSHION |
| HDL | HANDOL |
| HIMERON | CLOTH |
| HINGE, BAT | HINGE, BATTERY |
| HLDR | HOLDER |
| HT-SINK | HEAT SINK |
| IB | INSTRUCTION BOOKLET |
| IDLE | IDLER |
| IND, L-R | INDICATOR, L-R |
| KEY, CONT | KEY, CONTROL |
| KEY, PRGM | KEY, PROGRAM |
| KNOB, SL | KNOB, SLIDE |
| KNOB, VOL REV | KNOB, VOLUME REV |
| LBL | LABEL |
| LID, BATT | LID, BATTERY |
| LID, CASS | LID, CASSETTE |
| LVR | LEVER |
| P-SP | P-SPRING |
| PANEL, CONT | PANEL, CONTORL |
| PANEL, FR | PANEL, FRONT |
| PRGM | PROGRAM |
| PULLY, LOAD MO | PULLY, LOADING MOTOR |
| RBN | RIBBON |
| S- | SPECIAL |
| SEG | SEGMENT |
| SH | SHEET |
| SHLD-SH | SHIELD-SHEET |
| SL | SLIDE |
| SP | SPRING |
| SP-SCREW | SPECIAL-SCREW |
| SPACER, BAT | SPACER, BATTERY |
| SPR | SPRING |
| SPR-P | P-SPRING |
| SPR-PC-PUSH | P-SPRING, C-PUSH |
| SW | SWITCH |
| T-SP | T-SPRING |
| TERM | TERMINAL |
| TRIG | TRIGGER |
| TUN | TUNING |
| VOL | VOLUME |
| W | WASHER |
| WHL | WHEEL |
| WORM-WHL | WORM-WHEEL |
| ｼﾞｸｱｰﾑ | ARM, SHAFT |
| ｼﾞｸｶﾞｲﾄﾞ | GUIDE, SHAFT |
| ｽﾄﾗｯﾌﾟ | STRAP |
| ﾋﾝｼﾞ | HINGE |